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Etienne-Pierre Ventenat (1757-1808) and the gardens of Cels and Empress Joséphine

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Abstract

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The intensive geographical exploration of the world, starting in the mid eighteenth century, resulted in the discovery of numerous plant species new to science of which many were subsequently introduced into cultivation in Europe. Etienne-Pierre Ventenat (1757-1808) contributed widely to this process. After the end of his curatorial and teaching commitments at Sainte-Geneviève Abbey in Paris he became an active botanist following in the footsteps of his mentor Charles Louis L'Héritier de Brutelle (1746-1800). Ventenat was attracted by a trend of his period: publishing magnificent botanical books splendidly illustrated. He published three flower books from 1800 to 1808 on exotic plants recently brought to France from all over the world by various expeditions. Two flower books describe plants cultivated by Jacques-Martin Cels (1740-1806), an influential horticulturist who had built one of the most impressive plant collections of his period at Montrouge, just outside Paris. Another plant lover was Empress Joséphine (1763-1814). After her wedding with Napoléon Bonaparte (1769-1821), she bought in 1799 the splendid estate of Malmaison west of Paris. There the Empress assembled a remarkable collection of exotic plants, largely cultivated in her orangery and the "Grande Serre Chaude". She engaged Ventenat to describe her luxurious collection and the artist Pierre-Joseph Redouté (1761-1841), later known as the "Raphaël des fleurs", to depict the plants. This resulted in the famous flower book *Jardin de la Malmaison*, a masterpiece of botanical illustration. Ventenat, exhausted, passed away in 1808. His personal herbarium was bought in 1809 by Benjamin Delessert (1773-1847) whose herbarium was later donated to the City of Geneva in 1869. In his three flower books Ventenat treated a total of 343 plant names. A search in the herbaria of Geneva, Paris, Berlin and Madrid resulted in the finding of nearly all the original material relative to these names. A comprehensive list of names is provided here with comments on the origin of the plant material in the context of the explorations of this period, as well as information on typification and currently accepted names. In his three flower books Ventenat validated the names of 208 taxa (207 species and one variety) new to science: of these 67 are still accepted today as published while 52 are basionyms of names currently placed in another genera. Of these 208 names, lectotypification was not needed for 116 and the holotype has been found in G. For the remaining 92 names, 21 previous lectotypifications have been published but 5 of them needed a second-step lectotypification; 70 new lectotypes have been selected and one neotype. Further comments on the typification of ten species are also provided.

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Résumé

CALLMANDER, M.W., O.D. DURBIN, H.W. LACK, P. BUNGENER, P. MARTIN & L. GAUTIER (2017). Etienne-Pierre Ventenat (1757-1808) et les jardins de Cels et de l'Impératrice Joséphine. *Candollea* 72: 87-132. En anglais, résumés anglais et français. DOI: <http://dx.doi.org/10.15553/c2017v721a8>

L'intense période d'exploration du monde qui s'étend du milieu du dix-huitième siècle jusqu'au début du dix-neuvième a permis la découverte de nombreuses plantes nouvelles pour la science, qui ont souvent été introduites par la suite en culture en Europe. Etienne-Pierre Ventenat (1757-1808) contribua largement à ce processus. A la suite de son engagement en tant que conservateur et enseignant à l'Abbaye Sainte-Geneviève à Paris, il devint un botaniste à part entière, dans la lignée de son mentor Charles Louis L'Héritier de Brutelle (1746-1800). Ventenat s'est en particulier engagé dans un courant de l'époque: l'édition de magnifiques ouvrages botaniques somptueusement illustrés. Entre 1800 et 1808, il publia trois de ces ouvrages, consacrés aux plantes exotiques récemment ramenées en France par les nombreuses expéditions lancées à la découverte du monde. Deux de ces ouvrages décrivent les plantes cultivées par Jacques-Martin Cels (1740-1806), un horticulteur de renom qui avait constitué l'une des plus impressionnantes collections de plantes de cette période à Montrouge, juste en dehors de Paris. Une autreoureuse des plantes était l'Impératrice Joséphine (1763-1814). Après son mariage avec Napoléon Bonaparte (1769-1821), elle acquit en 1799 la splendide propriété de Malmaison, à l'ouest de Paris. L'Impératrice y rassembla une remarquable collection de plantes exotiques dans son orangerie et dans sa «Grande Serre Chaude». Elle engagea Ventenat pour décrire cette somptueuse collection et le peintre Pierre-Joseph Redouté (1761-1841), connu par la suite comme le «Raphaël des fleurs», pour dessiner les plantes. Cette collaboration aboutit au fameux ouvrage *Jardin de la Malmaison*, un chef d'oeuvre de l'illustration botanique. Ventenat, épuisé, mourut en 1808. Son herbier personnel est acheté en 1809 par Benjamin Delessert (1773-1847). L'herbier Delessert sera ensuite donné à la Ville de Genève en 1869. Dans ses ouvrages botaniques illustrés, Ventenat traita un total de 343 noms. Une recherche dans les herbiers de Genève, Paris, Madrid et Berlin a permis de retrouver presque tout le matériel original lié à ces noms. Une liste complète en est fournie, avec des commentaires sur leur origine dans le contexte des explorations de l'époque, ainsi que des informations sur leur typification et le nom actuellement accepté. 208 taxa (207 espèces et une variété) nouveaux pour la science ont été validés par Ventenat dans ses trois ouvrages: 67 sont encore acceptés aujourd'hui tels qu'ils ont été publiés tandis que 52 sont des basionymes de noms actuellement acceptés dans un autre genre. Parmi ces 208 noms, 116 n'ont eu besoin d'aucun acte nomenclatural et l'holotype a été trouvé à G. Pour les 92 autres, 21 lectotypifications antérieures ont été publiées dont 5 ont nécessité une deuxième étape; 70 nouveaux lectotypes ont été désignés, ainsi qu'un néotype. Des commentaires supplémentaires sur la typification de dix autres espèces sont également fournis.

Keywords

Ventenat – Cels – Empress Joséphine – Malmaison – Lamarck – Michaux – Jussieu – Australia – South Africa – United States – West Indies – Nomenclature – Age of Enlightenment – History of botany

Introduction

Among its many treasures the Conservatoire et Jardin Botaniques de la Ville de Genève [CJBG] keep extremely rich and diverse herbaria. Global in approach and covering the plant, algal and fungal kingdoms these collections of permanently preserved specimens rank among the top ten in the world. Like its sister institutions the CJBG keep a permanently growing general herbarium (G) and several historical, i.e. non-growing herbaria: Boissier's *Flora orientalis* herbarium (G-BOIS), the Pre-Linnaean herbarium (G-PREL), once known as the "Burman herbarium", the *Prodromus* herbarium of the Candolles (G-DC), and the Burnat herbarium (G-BU). As will be shown in this paper, the herbaria conserved by the CJBG are interlinked with the collections kept in other botanical centres in Europe, in particular those in Paris, forming in a sense an extensive network documenting the diversity of the plant, algal and fungal world.

Among the numerous acquisitions made by the CJBG over the last two centuries herbaria acquired from Paris played an important role, notably the vast botanical collection brought together by Benjamin Delessert (1773-1847), which was subsequently donated to the City of Geneva and incorporated into the general collection in G. In Paris, Delessert had, over several decades, amassed numerous botanical collections, including the herbarium of Etienne-Pierre Ventenat (1757-1808).

The aim of this paper is firstly to present the historical context of Ventenat's herbarium. This collection documents the contents of two private gardens: (a) the garden of Jacques-Martin Cels (1740-1806) in Montrouge, now a commune in the southern Parisian suburbs located c. 4.4 km from the city centre, and (b) the garden of Empress Joséphine (1763-1814) on her estate at Malmaison, now part of the commune of Rueil-Malmaison in the western suburbs of Paris located 12.6 km from the city centre. Ventenat's herbarium mirrors the contributions of its owner to name, describe and classify the masses of vascular plants new to science imported from all over the world to Paris around 1800. At the same time Ventenat was interested in publishing magnificent, fully illustrated flower books; three of them dealt with Cels's and the Empress Joséphine's gardens and were published between 1800 and 1808.

The second part of this paper is devoted to the nomenclatural aspect of the 343 scientific names cited by Ventenat in these three flower books. Among those, Ventenat newly published 259 names; of these 208 were validly published. We have considered that, out of the 208 names that can confidently attributed to Ventenat and for which original material has been identified, G holds 116 holotypes. Information on the typification of these names is provided in Appendix II including barcodes of specimens. Among the 92 validly published names that need a nomenclatural action, 16 have previously been correctly lectotypified in the literature,

75 are lectotypified below (70 first step and 5 second step lectotypifications) and one neotype is designated. Five names required a lectotypification based on an illustration because no collection could be traced (two have been previously dealt with in the literature and three are treated below).

Ventenat's contribution to botany

Ventenat and Cels's garden

Etienne-Pierre Ventenat was raised to become a clergyman. In addition to his various commitments at Sainte-Geneviève Abbey in Paris (subsequently transformed into the Panthéon, the Lycée Henry IV and the Bibliothèque Sainte-Geneviève), Ventenat soon started to study botany and initially collaborated closely with Charles Louis L'Héritier de Brutelle (1746-1800) (CUVIER, 1809). Ventenat's first botanical publication was a dissertation on the reproduction of mosses (VENTENAT, 1792) followed the next year by the description of a genus new to science, i.e. *Furcraea* Vent. (*Asparagaceae*) (VENTENAT, 1793). He subsequently published a treatment of *Antirrhinum* L. (*Plantaginaceae*) in the *Encyclopédie Méthodique* of Jean-Baptiste de Lamarck (1744-1829) (VENTENAT, 1797). The *Tableau du Règne Végétal selon la méthode de Jussieu [Tableau]* (VENTENAT, 1799a) in four volumes summarized Ventenat's knowledge of general botany and made Jussieu's *Genera Plantarum* published in Latin more popular. All this was undertaken in parallel with his curatorial and educational activities, in particular at the Sainte-Geneviève Library (see LEGÉE, 1977), of which he became "administrateur" in 1804. In his *Tableau*, Ventenat was the first to use the term "phanérogame" in opposition to "cryptogame", the latter established much earlier by Carl Linnaeus (1707-1778) (PORTÈRES, 1964). In 1795 Ventenat was elected a member of the Institut de France (ANON., 2007). Starting in 1800 Ventenat followed in the footsteps of his mentor L'Héritier and focused on the naming, describing, and classifying of plants new to science (LEGÉE, 1977) which, as a consequence of the increasingly intense geographical exploration of the world (KINTVILAS, 2007), had arrived in the French capital.

Jacques-Martin Cels's interest in botany developed through his contacts with Bernard de Jussieu (1699-1777) and Louis-Guillaume Le Monnier (1717-1799). Ruined by the French Revolution, he devoted himself totally to his passion and started to cultivate and sell plants. In Montrouge he managed to set up a spectacular collection of living plants, many of them exotic and on great demand at the time (CUVIER, 1809; WILLIAMS, 2001). Cels became an early member of the section "Economie rurale" of the Institut de France and his success as a nurseryman and collector of rare plants quickly drove him to become an illustrious French horticulturist. SILVESTRE (1806) reported: "Une branche de l'agriculture fixa particulièrement ses travaux les plus assidus; ce fut celle de la naturalisation

des plantes exotiques. Il suivit cette carrière avec la supériorité d'un homme de génie; et la pépinière qu'il a formée et qu'il a entretenue pendant plus de vingt années, a été la plus belle qui fût en Europe." ["A branch of agriculture attracted in a special way his most assiduous activity; this was the acclimation of exotic plants. He followed this line with the superiority of a genius; and the nursery which he had founded and maintained for more than twenty years was the most beautiful in Europe."] Cels had important connections with the botanical explorers of his time and was able to encourage them to collect new plants that would later expand his living collection. Among these, Jean-Guillaume Bruguière (1749-1798), Guillaume-Antoine Olivier (1756-1814), Pierre Marie-Auguste Broussonet (1761-1807) and André Michaux (1746-1802) brought Cels seeds from their historical expeditions (see below) (ANON., 1806). Cels always shared his knowledge with contemporary botanists and found in Ventenat someone who was willing to describe his unique collection (LAMY, 2008). At the same time Ventenat was interested in publishing magnificent, fully illustrated flower books, which meant for him a way to diffuse knowledge and make it available to students and agriculturists (LAMY, 2008), no doubt an important drive in relation to his teaching activities at Sainte-Geneviève. By describing and publishing the rare plants Cels cultivated in his garden, Ventenat "a élevé un monument à la gloire de Cels et à l'utilité publique" ["raised a monument to the glory of Cels and to public utility"] (ANON., 1806).

Pierre-Joseph Redouté (1761-1840), later known as the "Raphaël des fleurs", already enjoyed at the time a solid reputation as a plant illustrator (LAWALRÉE, 1996). Under the supervision of L'Héritier he had developed a natural gift for drawing critical parts of plants (STAFLEU, 1966) while working for the second volume of his master's *Stirpes novae* (L'HÉRITIER, 1785-1786; see also WILLIAMS, 2001). L'Héritier later suggested that Redouté might work on another flower book dedicated to succulents. At the same time the former suggested that a 22 years old young Genevan student, Augustin-Pyramus de Candolle (1778-1841), might author the text of what would become the masterpiece *Plantarum Succulentarum Historia* (see ROWLEY, 1956). From Augustin-Pyramus's personal correspondence kept in the archives of the Candolle family in Geneva, it seems that other scientists were also involved in this project, i.e. Jean-Baptiste de Lamarck (1744-1829), René Louiche Desfontaines (1750-1833) and Joseph Deleuze (1753-1835) (CANDOLLE, 1798; see BUNGENER, 2008 for Candolle's scientific epistolary network).

Ventenat started in 1800 his first flower book: *Descriptions des plantes nouvelles et peu connues cultivées dans le jardin de J. M. Cels* [*Descriptions*] (SYLVESTRE, 1806; CUVIER, 1809). This work was published in ten parts between 1800 and 1803 (VENTENAT, 1800-1803; see STEARN, 1939). The copper engravings in *Descriptions* were based on the works of several

plant illustrators, among them Pierre-Joseph Redouté and Henri-Joseph Redouté (1766-1852). The former contributed 81 illustrations to this flower book (STAFLEU & COWAN, 1986); the grisaille watercolours published as copper engravings in the *Descriptions* are kept in the Louvre in Paris, but have been deposited in the Musée National des Châteaux de Malmaison et de Bois-Préau in Rueil-Malmaison (shelf mark M.M. 40.47.592-40.47.703).

Ventenat and Empress Joséphine's garden in Malmaison

It is probably thanks to the publicity of the *Plantarum Succulentarum Historia* that Redouté caught the attention of Joséphine Vicomtesse de Beauharnais, who had married Napoléon Bonaparte (1769-1821) in 1796. The future Empress was born in Martinique and developed later in France a taste for luxurious gardens and fine conservatories. Three years after her wedding with Napoleon, she acquired the wonderful estate of Malmaison (MASSON, 1913). The splendid country house (Fig. 1) was soon to be expanded on Joséphine's request: pieces of land were added to the property, an orangery and a large "Grande Serre Chaude" [large warm greenhouse] (Fig. 2) erected to satiate her passion for botany [see LACK (2004) for a story of the Château de la Malmaison and the reproduction of more watercolours by Auguste Garnerey (1785-1824)]. "C'est à Malmaison que s'opère, chez Joséphine, le Miracle des Fleurs." ["It is in Malmaison, at Joséphine, where the *Miracle des Fleurs* works."] (MASSON, 1913: 231). Joséphine first invited André Thouin (1747-1824), Head Gardener of the Jardin des Plantes at the Muséum national d'Histoire naturelle [MNHN] in Paris, to assist her in assembling a unique collection of exotic plants (MASSON, 1913). Thouin had excellent relationships with famous gardeners, notably Cels but also with Louis-Claude Noisette (1772-1849). This is indicated by the correspondence between Thouin and Noisette (NOISETTE, 1807). The link with the Muséum resulted in an exchange of rare plants that filled Joséphine's sumptuous conservatories. In a sense Redouté and Ventenat also bridged the gap between Cels's garden at Montrouge and Joséphine's garden at Malmaison. By the early nineteenth century, Malmaison had become the home to a unique collection of exotic plants.

The future Empress – her coronation took place only on 4 December 1804 – enjoyed introducing her renowned aristocratic guests to the wonderful living collection at Malmaison (Fig. 3). By 1803 at the latest she had started another great project: having a selection of her living collection documented in magnificent flower books made available to her prestigious visitors and the inner circle of the élite. She ordered what would become one of the greatest flower book ever – the majestic *Jardin de la Malmaison* [*Jardin de Malmaison*] in two volumes. Ventenat was hired for the descriptions of the plants and Pierre-Joseph Redouté hired to paint them. The

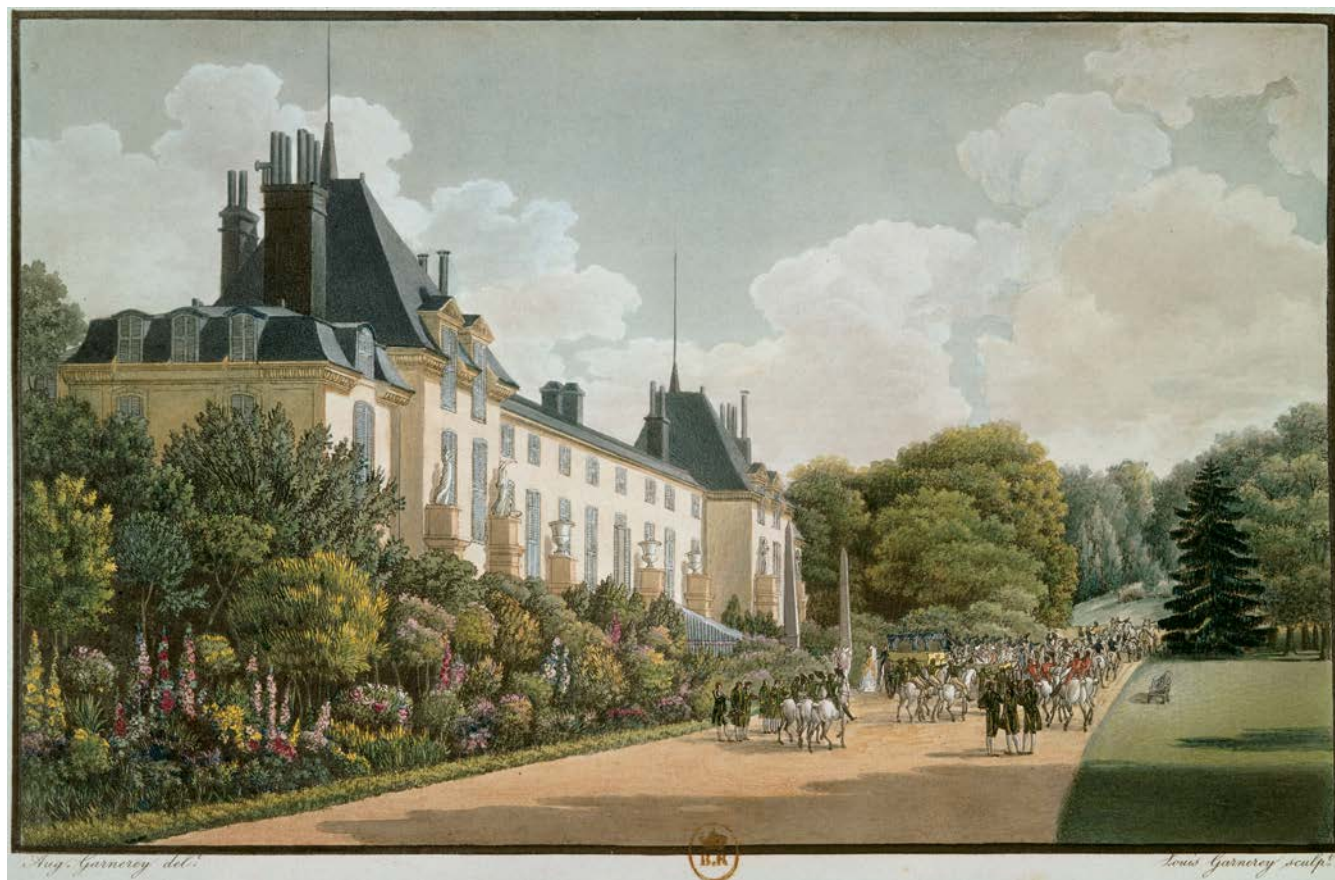


Fig. 1. – View of the Facade of Malmaison House seen from the Park. Watercolor, Auguste Garnerey (before 1824).

[Photo: © RMN-Grand Palais / Agence Bulloz]

watercolours prepared by the latter and published as colour copper engravings in *Jardin de Malmaison* are kept largely in the Fitzwilliam Museum in Cambridge (shelf mark PD. 122-1973). The Empress even promoted Ventenat as “son botaniste” [“her botanist”] and Redouté as “son peintre de fleurs” [“her flower painter”] (Nussac, 1930). The two volumes of *Jardin de Malmaison* were published in a total of 20 instalments between April 1803 and November 1805 (STEARN, 1939). An exquisite portrait of Joséphine painted by Robert Lefèvre (1755-1830) in 1805 and now in the Suermondt Ludwig Museum in Aachen shows the Empress with her new trophy – an open volume in large format, almost certainly the *Jardin de Malmaison* (LACK, 2004: 6), on which a flowering twig, probably of *Calomera amaranthoides* Vent., has been placed. This fine work included 120 colour copper engravings by Allain based on Pierre-Joseph Redouté and the description of 161 plant species by Ventenat. The latter kept an eye on every detail of this great flower book and his name is forever associated with this major publication meticulously executed (LEGÉE, 1977).

In the meantime, Ventenat undertook another flower book entitled *Choix de plantes: dont la plupart sont cultivées dans le jardin de Cels* [Choix]. This work was published in ten parts

between August 1803 and 1808 and dealt mainly with plants cultivated in Cels’s garden but also in Joséphine’s garden in Malmaison. Among the 60 copper engravings published, 12 were based on grisaille watercolours by Pierre-Joseph Redouté, the others on illustrations by Pierre-Antoine Poiteau (1766-1854) and Pierre Jean François Turpin (1775-1840), two other famous plant illustrators, among others. This material forms part of MS5041, kept at the Bibliothèque Centrale of the MNHN in Paris. The publication of this flower book had been planned before *Jardin de Malmaison* started to appear but was clearly postponed due to Joséphine’s order in 1803. The refinement of the illustrations is not on the same level as in *Jardin de Malmaison* because less funding was available for this enterprise.

At the top of his fame Ventenat, exhausted and suffering from a liver disease, died of an “autumn fever” in 1808 at the age of 51 (CUVIER, 1809). Just before passing away, he had published his last book *Decas generum novarum* (VENTENAT, 1808a) containing the formal description of eight new genera (see STEARN, 1970).

Shortly after Ventenat’s death, Empress Joséphine hired Aimé Bonpland (1773-1858) to succeed Ventenat at Malmaison in order to continue describing the plants growing in her

garden. The publication of *Description des plantes rares cultivées à Malmaison et à Navarre* started in December 1812 and came to an end in April 1817 (BONPLAND, 1812-1817; see STEARN, 1942). This was the last of the works initiated with support from Joséphine. The Empress died at Malmaison in May 1814 and never saw the book completed. Her death ended the great age of botanical book production of the Consulate and the Premier Empire, a period when all the technical and financial resources available at the time were brought together to describe and illustrate new and rare plants cultivated in France.

Ventenat's herbarium acquired by Delessert

Among the tasks Bonpland endorsed shortly after he was appointed by Empress Joséphine in 1808, one was to prevent Ventenat's widow from selling her husband's library and herbarium (NUSSAC, 1930). Ventenat left two children and died in poverty despite being employed by the Empress. "La Science n'enrichit guère souvent ses Maîtres, même protégés par leur Souveraine." ["Science rarely enriches its Masters, even if protected by their Sovereign."] (NUSSAC, 1930: 177). The catalogue of Ventenat's library and herbarium was released in December 1808 and the auction took place between April 25th and May 2nd, 1810. Delessert, a wealthy industrialist and naturalist, bought Ventenat's herbarium. This acquisition by Delessert underscored the MNHN's inability to acquire such large collections due to financial constraints. In reality, there was no acquisition policy at that time simply because no money was available (Lamy, pers. comm.). Ventenat's herbarium contained 14,000-15,000 collections including Ventenat's own herbarium, i.e. plants collected in Cels's and Joséphine's gardens and described in his three flower books, but also other collections acquired through his North-European correspondents, e.g. Olof Peter Schwartz (1760-1818) and Martin Vahl (1749-1804) (VENTENAT, 1808b; GUILLAUMIN, 1833). Ventenat's herbarium also included plants collected by Jean-Baptiste Leblond (1747-1815) in Cayenne, or that were sent to the Empress Joséphine from Brasil (Fig. 4), but also collections by Hipólito Ruiz López (1754-1815) and José Antonio Pavón (1754-1840) from Chile and Peru and described in their famous *Flora Peruviana, et Chilensis* (RUIZ & PAVÓN, 1798-1802). In a letter archived at G sent by DELESSERT (1810) to Augustin-Pyramus de Candolle, the former explained in detail how exceptional this historical collection was and how proud he was to have acquired it: "J'ai pu faire l'acquisition de l'herbier de Ventenat qui a le mérite d'être bien rangé et bien nommé. [...] Vous voyez mon cher ami que je pourrai avoir quelques plantes dignes de ce nom." ["I was able to acquire the Ventenat herbarium which has the merit of being well organized and named. [...] You see my dear friend that I may have some plants worthy of the name."]

Delessert passed away in 1847. His extremely rich herbarium, one of the largest of his time, was given to the City of Geneva in 1869. BURDET et al. (1990) speculated that this donation was a consequence of Delessert's will in order to remember the place of birth of his mentor Jean-Jacques Rousseau (1712-1788). After a thorough research in the CJBG archives, HOCQUET (2002) proposed an alternative hypothesis: according to a letter from Sophie Delessert to her cousin Alfred in 1868 (HOCQUET, 2002: 110), Delessert's heirs did not want the herbarium to be donated to the MNHN because such a donation would remain in boxes without being integrated into the collections. As a matter of fact the Delessert herbarium would have largely duplicated the MNHN collections; in addition, the herbarium of Paris was sorely lacking in space. The collection had just moved to new premises which were already quite full (LAMY, 2013). HOCQUET (2002) also puts forward that Alphonse de Candolle (1806-1893, son of Augustin-Pyramus) played a key role in this transaction with the support of his own family. In a letter addressed to the authority of the City of Geneva, the descendant of the Delessert family who was planning to donate Delessert's herbarium wrote: "Nous attacherions un grand prix à perpétuer ainsi le souvenir de l'intérêt que MM. Delessert portaient aux sciences naturelles, et les liens de vive affection qui les ont toujours unis à la Suisse". ["We would attach great importance to perpetuating the memory of the Delesserts' interest in natural sciences and the bonds of affection which have always united them to Switzerland"] (DELESSERT et al., 1869: 311). Clearly the various explanations as to how the Delessert herbarium ended up in Geneva bear something in common: over generations the Delessert family had a strong link with Geneva and Benjamin seems to have been proud of his unquestionable link and friendship with the French speaking part of Switzerland from where his family had originated, especially with the city of Geneva where his close botanist friend Augustin-Pyramus had lived.

Nomenclature and typification of Ventenat's names

Context of names published

VENTENAT (1799a) validated the names of several plant families new to science which are still accepted today, i.e. *Alismataceae*, *Asaraceae*, *Orobanchaceae* or *Smilacaceae*. These are not dealt with, neither are all those names published in VENTENAT (1793, 1797, 1799a, 1799b, 1800, 1808a). A single exception is the species *Illicium parviflorum* Michx. ex Vent., first validly published in *Tableau* and later cited in *Descriptions* tab. 22. 1801 which will be included in this contribution.

All Ventenat's flower books were published in ten instalments over several consecutive years. In this context, it is important to underline that three of Ventenat's articles antedate names published in Ventenat's three flower books that were published between 1800 and 1808. It was already a common practice to validate new taxa in periodicals which had a faster editorial process than books delivered with illustrations (Lamy, pers. comm.).

A few examples illustrate this point: the generic name *Caladium* Vent. (*Araceae*) was cited in the third fascicle of *Descriptions* published in March 1801 as plate 30. In this treatment, Ventenat also cited the name of one new species, i.e. *C. nymphaeifolium* Vent., and of seven new combinations. However, those names had already been published between December 1800 and January 1801 in the fourth volume of the journal *Magasin Encyclopédique* (VENTENAT, 1801; see NICOLSON, 2006). Two further publications antedate taxa included in *Choix*. VENTENAT (1807) explained that the publication of this flower book had to be interrupted after the fifth livraison in 1803 ending at plate 30.

As explained above, there is no doubt that he had to put a great deal of effort into the demanding *Jardin de Malmaison* ordered by Joséphine in early 1803 at the latest (see above). As a result Ventenat presented to the "Institut de France" a note outlining and explaining the genera and species that he intended to publish in the next instalments of *Choix*. Therefore the names of the taxa appearing on plates 31 to 42 were first validly published in VENTENAT (1807), not in *Choix* (12 new spp.; see EXELL, 1938). Towards the end of his life VENTENAT (1808c) published some observations on the genera *Samyda* Jacq. and *Casearia* Jacq. that antedate the eighth instalment of the *Choix* (plates 43-47: 7 taxa in *Casearia* and 1 in *Samyda*) (see EXELL, 1938). The earlier publication of these 29 names (VENTENAT, 1799a, 1801, 1807, 1808c) has no nomenclatural repercussions except in their respective dates and places of publication because the text is clearly identical to that in his flower books. These names will therefore be treated in this article as if they were published in Ventenat's flower books (see Appendix II for details regarding their place of publication).



Fig. 2. – The “Grande Serre Chaude”. Watercolor, Auguste Garnerey (before 1824).

[Photo: © RMN-Grand Palais (Musée des châteaux de Malmaison et de Bois-Préau) / Daniel Arnaudet / Jean Schormans]

Ventenat's herbarium and descriptions

In the late eighteenth century, France was involved in the intensive exploration of the world and explorers, e.g. Michaux in North America (see DELEUZE, 1804) or Bruguière and Olivier in Persia (see BERNARD, 1997), brought back new plants to botanists and horticulturists in France. Plant knowledge made tremendous progress thanks to these explorers. Botanists were describing plant species based on living plants that were subsequently preserved as herbarium specimens. Ventenat had assembled his own herbarium that was to serve him to describe the plants dealt with in his flower books. These herbarium specimens are: (1) either the original material from the explorer(s) from which seeds were further used to grow plants in Cels's or Joséphine's garden and/or (2) the cultivated plants collected in the gardens by Ventenat himself. Ventenat also studied Jussieu and Lamarck's herbaria in Paris and received duplicates from both botanists (often clastotypes after studying the original at P, see below). In addition, Ventenat received duplicates from his contemporaries, e.g. the Spanish botanist Antonio José Cavanilles (1745-1804) who had lived in Paris from 1777 to 1781, where he had learned botany with Thouin and Jussieu (LÓPEZ PIÑERO, 2004). Later Cavanilles moved to Madrid, and was appointed director of the Royal Botanical Garden and Professor of botany from 1801 to 1804. Subsequently he described many plants and genera brought back from the Spanish expeditions around the world taking place at this period (see GONZÁLEZ BUENO, 2002 and *Correa revoluta* Vent. under n° 21).

Each full entry [mentioned as “tab.” below] in Ventenat's three flower books contains a full description giving the origin of the plant and often the names of the collectors who first brought the plants into cultivation. In the text supplementary to several plates [mentioned as “sub tab.” below], Ventenat provided texts with information on other species that he was aware of in the respective genus. These plants had either already been named and described by earlier botanists or were represented in the Jussieu or Lamarck herbarium at P. Thus Ventenat introduced several new plant names in the addenda with no plates linked to them. These names are validated by a succinct Latin diagnosis, often followed by a note “ex Juss.” or “ex Lam.”. In these cases, three different situations have been encountered: (1) No collection has been located in the Ventenat herbarium and a lectotype at P is designated; (2) The collection in the Ventenat herbarium is clearly a clastotype given to him by either Lamarck or Jussieu and a lectotype is designated at P where the plant that clearly served for its description is preserved and is much more complete than the fragment in his herbarium and (3) The plant is represented in Ventenat's herbarium by a complete specimen and we consider the G collection as the holotype and duplicate(s) as isotype(s).

MWC and ODD spent a considerable amount of time in G in order to bring to light all the collections linked to Ventenat's flower books because his herbarium, included in the Delessert collection as explained above, is now part of the general collection at G. Both Ventenat's handwriting and typical footer labels are easily recognizable (Fig. 5) (see also BURDET, 1979: 179-180) but such old specimens can potentially be found filed under several names in such a large herbarium. We used several online databases to trace back historical synonyms, among them in alphabetical order: the African Plant Database (APD, 2017), the Australian Plant Census (APC, 2017), the Australian Plant Name Index (APNI, 2017), the International Plant Names Index (IPNI, 2017), the PLANT LIST (2017), TROPICOS (2017), and the World Checklist of Selected Plant families (WCSP, 2017). We performed in depth searches in the G and P herbaria, also investigating the separate historical collections in G, i.e. G-BOIS and G-DC, and in P, i.e. P-LA, P-JU, P-MICH and P-TRF. MWC further visited MA and received scanned images from the Webb herbarium (FI-W), and HWL investigated the Willdenow herbarium (B-W).

While in Paris in 1815 Augustin-Pyramus de Candolle received from Delessert 300 duplicates originating principally from the Ventenat herbarium: “J'ai reçu lors de mon séjour à Paris de Mr. Delessert en plantes étrangères surtout de l'herbier Ventenat.” [“During my stay in Paris I received from Mr. Delessert in foreign plants especially from the Ventenat herbarium.”] (CANDOLLE, 1830). These collections, found in G-DC mostly with the note “M. B. Delessert 1816” (Fig. 6), are considered original material and were part of Ventenat's herbarium before having been given to Candolle. This has some important nomenclatural repercussions.

Foreword to nomenclature

Among the names dealt with in *Choix*, *Descriptions*, and *Jardin de Malmaison* several are clearly linked to earlier names. These were notably published by Linnaeus, his son Carl Linnaeus filius (1741-1783), William Aiton (1731-1793), James Edward Smith (1759-1828), and Henry Charles Andrews (1794-1830). Several new names published by Ventenat are superfluous because Ventenat simply changed species epithets, providing a clear reference to a previously published name.

The typification of Ventenat's names in this article needs a clarification. We strictly followed the Code of Botanical Nomenclature (MCNEILL et al., 2012) and the very useful user's guide by TURLAND (2013). “A holotype is the one specimen or illustration used by the author, or designated by the author as the nomenclatural type. As long as it exists, it fixes the application of the name concerned” (MCNEILL et al., 2012). Since Ventenat neither subscribed to the type concept nor ever used the term ‘type’, we use the term “original material” for specimens clearly associated with his plant names.

Regarding typification, the vast majority of cases corresponded to a limited number of categories that have been treated as follows: (1) A single specimen from a single gathering exists in Ventenat's herbarium at G; this must be considered as the holotype. As explained above, it can be either the plant cultivated in Montrouge or Malmaison or the material brought back by explorers. In the case of duplicates of this single gathering in other herbaria, duplicates are considered as isotypes. An exception has been made when specimens found in both Ventenat's herbarium and in G-DC represent a single gathering and are clearly labelled as "M. B. Delessert 1816" (Fig. 6) in the latter herbarium (see above and below, e.g. *Ananema coriacea* Vent.). (2) Two or more specimens of a single or more gathering are extant in Ventenat's herbarium at G and/or G-DC (e.g., *Picridium ligulatum* Vent.), i.e. the material collected in the wild and material of a cultivated plant or two cultivated plants clearly not from the same origin, e.g. Cels's garden and Joséphine's garden (see under *Ancistrum repens* Vent. for an example). In this case a lectotype is designated if not done previously. (3) When previous typification statements in the literature required the designation of a second-step lectotype (TURLAND, 2013), the nomenclature of these names is also clarified. The remaining original material was cited as syntypes in various herbaria for straightforwardness in databasing those specimens.

All the elements of original material including lectotypes extant in Ventenat's herbarium at G are available online via the CATALOGUE DES HERBIERS DE GENÈVE (2017); material extant at P is available via the Paris herbarium database (SONNERAT, 2017), and material extant at FI is available via the FIRENZE HERBARIUM DATABASE (2017). These images are also accessible via the JSTOR GLOBAL PLANTS (2017) website. There is very little material of Ventenat's outside G and P (including the historical herbaria kept by both institutions). STAFLEU & COWAN (1986) mentioned duplicates at C and W but searches through online databases revealed only a couple of them. Delessert was however very generous and his visitors often received specimens in exchange for determination in his personal herbarium. It is likely therefore that further Ventenat duplicated material may well be found, especially in MPU. Duplicates found so far except in G-DC are mostly clastotypes, i.e. fragments of holotype specimens given to the authors when revising the taxonomy or nomenclature of a given genus.

Ventenat's taxonomic legacy

The names of eighteen genera were cited between 1800 and 1808 in Ventenat's three flower books: *Choix*, *Descriptions*, and *Jardin de Malmaison*. Thirteen are accepted or conserved names [nom. cons.], three are rejected names [nom. rejic.], one is synonym of a previously published generic name, and one is an illegitimate name [nom. illeg.] (See Appendix I). All those genera were published in Ventenat's three flower

books except *Caladium* published in VENTENAT (1801), *Poiretia* Vent., *Poitea* Vent., *Riedlea* Vent., and *Turpinia* Vent. published in VENTENAT (1808).

Ventenat cited a total of 343 names in his three flower books. The geographical origin of these names is listed in Fig. 7. It is not surprising that more than 20% of the plants that were growing in Cels's and Joséphine's garden came from the Southern Territories (Australia, New Zealand and Norfolk Island). This is the consequence of Cels's excellent relationship with England, notably with Joseph Banks (1743-1820), who had taken part in the first circumnavigation of the world with James Cook in 1768-1771 and later had been elected President of The Royal Society (LACK, 2004). Banks also supported the participation of botanists during the second circumnavigation of the world headed by Cook with Johann Reinhold Forster (1729-1789) taking part (ALLORGE & IKOR, 2003). In addition, Ventenat received seeds from naturalists and sailors who took part in the Baudin Expedition (1800-1803) to the Southern Territories, i.e. Nicolas Baudin (1754-1803), and Jacques Félix Emmanuel Hamelin (1768-1839) (see BONNEMAINS, 2000). Other plants were linked to the D'Entrecasteaux Expedition - a French expedition in the southern seas from 1791 to 1794 in the search of the missing ships of the La Pérouse Expedition - through Jacques-Julien Houtou de La Billardière (1755-1834) and Ventenat's brother, Louis (1765-1794) (ALLORGE & IKOR, 2003). North America and South Africa are the origin of nearly 15% of the plants, a fact which underlines the intensive botanical explorations going on in these regions. Michaux was the principal supplier of plants from North America where he travelled to Illinois and Carolina in 1786-1797 together with his son François André (1770-1855) who was to come back to France in 1790 (DELEUZE, 1804). Besides Cels's good relationship with Michaux father and son (ANON., 1806), this also demonstrates the good relationship between André Michaux and Ventenat. Correspondence archived in the "Bibliothèque de l'Institut de France" in Paris testifies to the great respect that Michaux had for Ventenat (MICHAX, 1786). In these letters, among others, sent by Michaux from North America and Persia, we learn how meticulous he was in collecting seeds and plants and how respectful he was to "Citoyen Ventenat, Membre de l'Institut". Each of these letters ended by: "Je suis très respectueux, Monsieur - de votre humble et très respectueux serviteur, André Michaux" ["I am most respectfully, Sir - from your humble and very respectful servant, André Michaux"]. As Ventenat described all the North American plants that were growing in Cels's and Joséphine's garden, several names later described by MICHAX (1803) in the two volumes of his *Flora Boreali-Americana* are illegitimate because they represent later isonyms of Ventenat's names. In addition, Michaux described also some of these species in different genera and/or made use of a different epithet. Type collections are therefore the same between the two



Fig. 3. – Interior of the Grande Serre Chaude. Watercolor, Auguste Garnerey (before 1824).
 [Photo: © RMN-Grand Palais (Musée des châteaux de Malmaison et de Bois-Préau) / Daniel Arnaudet / Jean Schormans]

botanists (see Appendix II and nomenclatural chapter). The Michaux collections are mostly deposited at P, notably in the Achille Richard (1794-1852) herbarium now in the general herbarium. The collections that related to his journey to North America published in *Flora Boreali-Americana* are part of the historical herbarium P-MICH. Plants from South Africa and the Cape region came notably from the D'Entrecasteaux Expedition. The Bruguière and Olivier journey to Persia (BERNARD, 1997) resulted in plants from Western Asia. Material collected by Poiteau and Anselme Riedlé (1765-1801) came from the West Indies. In 1796-1798 Riedlé travelled with Baudin on board the *Belle-Angélique*, later they became friends and Riedlé took part in the Baudin Expedition, dying in Timor on the way to Australia (see BONNEMAIS, 2000). Several collections of Riedlé have been legated to Baudin and are labelled as “Baudin herbarium” in P (they are here considered as Riedlé collections, see *Jatropha hernandiifolia* Vent. for an example, under n° 36).

We present a list of the 343 names dealt with by Ventenat in the Appendix II. Out of these 343 names, only 83 had been published before by other authors. Among the 259 names newly published by Ventenat, 25 represent new combinations,

one can be considered as a new name [nom. nov.], nine are illegitimate names [nom. illeg.] (i.e. later homonyms), 26 are invalid names [nom. inval.] (i.e. 6 superfluous combinations and 20 superfluous names).

In total 208 names were validly published (incl. 9 later homonyms) by Ventenat in his three flower books, all these names are binomials except the name of the variety *Andromeda calyculata* var. *anomala* Vent. The list of these 208 names is presented in the Appendix II with their respective typification. Of these, 67 species names are still accepted today and a total of 52 further names are basionyms of names currently accepted in other genera.

The aim of this project was primarily to bring Ventenat's remarkable legacy to light. However, it is obvious that further isotypes or isolectotypes will be found in the future. We are conscious that further names will possibly need lectotypification in order to clarify previous typification cited in the literature. We hope that botanists will be more cautious in lectotypifying Ventenat's names in the future and carefully take the historical context into consideration.

Lectotypifications and miscellaneous notes

1. *Achillea aspleniifolia* Vent., Descr. Pl. Nouv.: tab. 95. 1802.

Lectotypus (designated here): [UNITED STATES]: Hort. Cels, *Ventenat s.n.* (G [G00341485]!).

= *Achillea millefolium* L.

Notes. – Two different collections have been located in Ventenat's herbarium at G. The plant collected by Michaux from his travel to North America (G [G00341484]) and the plant cultivated in Cels's garden. The latter is designated here as the lectotype as it is more complete and clearly served primarily for the description of *Achillea aspleniifolia*. No specimen has been located at P.

2. *Alyssum mutabile* Vent., Descr. Pl. Nouv.: tab. 85. 1802.

= *Berteroa mutabilis* (Vent.) DC.

Lectotypus (designated here): [WESTERN ASIA. "Levant"]: Hort. Cels, *Ventenat s.n.* (G [G00341571]!; isolecto-: G [G00341570]!).

Notes. – Two specimens of a single gathering have been located in Ventenat's herbarium in G representing the plant cultivated in Cels's garden. The more complete collection is designated here as the lectotype.

3. *Anagallis fruticosa* Vent., Choix Pl.: tab. 14. 1803.

Lectotypus (designated here): MOROCCO: Mogador [Essaouira], *Broussonet s.n.* (G [G00341554]!; isolecto-: B-W [B-W 03542-01 0]!, G-DC [G00138354]!).

= *Anagallis monelli* L.

Notes. – Three collections of a single gathering have been located. It represents the specimen collected by Broussonet in Mogador [now Essaouira], Morocco. We know that Delessert and Candolle exchanged herbarium specimens. The Broussonet collection in Ventenat's herbarium is therefore designated here as the lectotype.

4. *Anamenia coriacea* Vent., Jard. Malmaison 1: tab. 22. 1803.

Lectotypus (designated by RASMUSSEN, 1979: 27): [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* (P-JU n° 10574 [P00667188]!; isolecto-: G [G00406216]!, G-DC [G00144870]!).

= *Anemone vesicatoria* (L. f.) Prantl

Notes. – RASMUSSEN (1979: 27) designated a lectotype at P-JU for *Anemone coriacea* now accepted under the name *A. vesicatoria*. The collection held at P-JU is clearly a duplicate of the one at G, both representing the same gathering from

the plant cultivated at Malmaison with Ventenat's handwriting. RASMUSSEN (1979)'s lectotypification on a specimen at P-JU is unfortunate, but has priority. The G specimens (in G and G-DC) are considered here as isolectotypes.

5. *Ancistrum repens* Vent., Descr. Pl. Nouv.: tab. 6. 1800.

Lectotypus (designated here): [PERU]: "individu de pleine terre", Hort. Cels, *Ventenat s.n.* (G [G00341457]!).

= *Acaena ovalifolia* Ruiz & Pav.

Notes. – Two specimens are represented in Ventenat's herbarium that clearly represent two gatherings from Cels's garden. One collection is from the open ground ("individu de pleine terre") and the other from the orangery ("individu d'Orangerie") (G [G00341456]). We designate the first specimen as the lectotype as it better represents the species in the wild, despite the fact that the second specimen from the orangery was very likely the one to have been used for the plate. The specimen in the centre of the sheet n° 14214 in P-JU [P00667169] is from Cels's garden but no information of its exact provenance is given. It may represent an isolectotype.

6. *Andromeda cassinefolia* Vent., Descr. Pl. Nouv.: tab. 60. 1801.

Lectotypus (designated here): [UNITED STATES]: Hort. Cels, *Ventenat s.n.* (G [G00341453]!).

= *Zenobia pulverulenta* (W. Bartram ex Willd.) Pollard

Notes. – In 1801, Ventenat validated in *Descriptions* the name *Andromeda cassinefolia* based on a specimen from material cultivated in Cels's garden [G00341453] designated here as the lectotype. In the second volume of *Jardin de Malmaison* (under tab. 79 published in 1804), Ventenat treated this taxon under the name *A. cassinefolia* var. *nuda*, a *nom. nud.* This taxon was illustrated by Redouté based on a second collection [G00408075] that is still extant in Ventenat's herbarium. We consider the second collection as an element of original material of *A. cassinefolia* because Ventenat in 1801 already discussed the variability of his new taxon and the second collection cited in 1804 was very likely already in his possession in 1801.

7. *Antirrhinum bipartitum* Vent., Descr. Pl. Nouv.: tab. 82. 1802.

= *Linaria bipartita* (Vent.) Willd.

Lectotypus (first step designated by VIANO, 1978: 79; second step designated here): [MOROCCO]: Hort. Cels, *Ventenat s.n.* (G [G00190702]!; isolecto-: G [G00190703]!).

Notes. – VIANO (1978: 79) in his revision of the genus *Linaria* sect. *Versicolores* (Benth.) Wettst. in the Mediterranean basin cited a "herb. Ventenat" specimen at G as type.

This implicit lectotypification needs a second step designation, as two collections exist in the Ventenat herbarium. We designate the more complete sheet as the lectotype. Four sheets of original material from Broussonet from Morocco are held in G-DC [G00478868] and one more in the Willdenow herbarium in B-W [B-W 11278-01 0].

8. *Apium prostratum* Vent., Jard. Malmaison 2: tab. 81. 1804-1805.

Lectotypus (designated here): [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* (G [G00359756]!; isolecto-: G-DC [G00478844]!).

= *Apium prostratum* Labill., Voy. Rech. Pérouse 1: 141. 1800 [nom. nud.], Nov. Holl. Pl. 1: 76, tab. 103. 1805 [nom. illeg.]. **Typus**: AUSTRALIA. **Tasmania**: Van Diemen, *La Billardièrè s.n.* (holo-: FI-W [FI016964] image seen; iso-: B-W [B-W 5989-01 0]!, G-DC [G00478846]!, FI-W [FI016965] image seen, P [P00834725, P00834726]!, P-JU n° 10157 [P00307178]!).

Notes. – The seeds of this new species were received from Hamelin who took part in the Baudin Expedition to the Southern Territories (see introduction). A single gathering exists in Ventenat's herbarium at G, a plant cultivated in Malmaison with a fragment in G-DC. The collection in Ventenat's herbarium is designated here as the lectotype. Ventenat in *Jardin de Malmaison* (1804-1805: tab. 81) wrote in the note following the species description that his new species seems to be the same [...parait...] as the one mentioned by LA BILLARDIÈRE (1800: 141). *Apium prostratum* Labill. is a *nom. nud.* in 1800 but was validly published in September 1805 by LA BILLARDIÈRE (1804-1805: 76, tab. 103). However, Ventenat's name had been published between December 1804 and January 1805 (STEARNS, 1939) and antedates La Billardièrè's. Both names are independent and not based on the same types. SHORT (1979: 217) combined both names and mentioned a type in P as the holotype and an isotype in G-DC. In the latter herbarium, original material of both names are present. A holotype and two isotypes of La Billardièrè's later homonym are present respectively in FI-W, and in B-W and P-JU.

9. *Ardisia crenulata* Vent., Choix Pl.: tab. 5. 1803.

= *Parathesis crenulata* (Vent.) Hook. f. ex Hemsl.

Typus: DOMINICAN REPUBLIC / HAITI: "St. Domingo", *Poiteau s.n.* (holo-: G [G00341511]; iso-: G [G00341669]!, P-JU n° 7315+B [P00671356]!).

Notes. – HOWARD (1989: 43) designated plate 5 [tab. 5] in *Choix* in 1803 as the lectotype. The finding of its holotype, *Poiteau s.n.*, the only extant collection in the Ventenat herbarium, supersedes this lectotypification. Two duplicates of

Poiteau's collection have been located in the general herbarium at G and in P-JU herbarium respectively and are here considered as isotypes.

A specimen annotated by Carl Ludwig Willdenow "Ardisia crenula" [sic] and by Dietrich Friedrich Karl von Schlechtendal "Seidel Paris W [ilddenow]" [B-W 044901-01 0] was probably collected by the gardener Jacob Friedrich Seidel, albeit almost certainly after 1803 and therefore illegible for typification. The latter is reported to have worked from 1810 to c. 1812 in the "Jardin des Plantes" in Paris (RIEDEL & RIEDEL, 2010).

10. *Bejaria racemosa* Vent., Descr. Pl. Nouv.: tab. 51. 1801.

Lectotypus (designated by CLEMANTS, 1995: 71): UNITED STATES. **Florida**: *Michaux s.n.* (G [G00342248]!; isolecto-: P [P02441846, P02441849]!, P-MICH [P00667179, P00667182, P00667183]!).

Notes. – The name *Bejaria racemosa* was validated on the basis of a plant in Cels's garden raised from seeds brought back by Bosc from a botanical garden in Charles-Town [Charleston, Boston], possibly the garden founded after 1786 by Michaux "ten miles from Charlestown" (RAMSAY, 1858). Ventenat also mentioned in the protologue that Michaux discovered the plant in Florida. No cultivated specimen exists in Ventenat's herbarium but a single specimen from Florida, i.e. the Michaux collection, is extant. This collection has been designated as the lectotype by CLEMANTS (1995: 71). A collection from Cels's garden exists in the G-DC herbarium [G00454403] and is here considered as original material. Duplicates of Michaux collections in P and P-MICH are considered as isolectotypes. Another collection in G-DC [G00454405] represents a cultivated plant from Malmaison but it seems that it was collected after the validation of the name in 1801 and is here not considered as original material.

MICHAUX (1803) published the name *B. paniculata* Michx., [nom. illeg.] [non *B. paniculata* Cels ex Dum. Cours.], a homotypic synonym of *B. racemosa* based on the same gathering as Ventenat. Ventenat in *Choix* (1808: sub tab. 52) already considered these names as synonyms and wrote: "L'auteur de la Flore de l'Amérique Septentrionale [i.e. Michaux] a cru devoir substituer au nom spécifique de racemosa celui de paniculata." ["The author of the *Flore de l'Amérique Septentrionale* [i.e. Michaux] felt that he had to substitute the specific name racemosa with paniculata."]

11. *Caladium nymphaeifolium* Vent. in Mag. Encycl. 4: 471. 1801 [cited in Descr. Pl. Nouv.: sub tab. 30. 1801].

Lectotypus (designated here): [INDONESIA]: "Wali Ila", (Rheede, Hort. Malab. 9: tab. 22. 1689).

= *Colocasia esculenta* (L.) Schott



Fig. 4. – *Poiratia punctata* (Willd.) Desv. Specimen of a collection from Brazil sent by Ventenat to the Empress Joséphine, kept at G.

Notes. – Despite a search for original material of this species at G and P, no collection has been located. The name *Caladium nymphaeifolium* was validated by Ventenat in *Descriptions* in 1801 in the text below the description of *Caladium bicolor* (Ait.) Vent. with no illustration but with a clear reference to *Hortus Malabicus* vol. 9 (RHEEDE, 1689): “une espèce que j’ai trouvée dans l’herbier Jussieu, qui est figurée dans le IXème vol. de l’*Hort. Malabar.*, t. 22, et à laquelle j’ai donné le nom de *nymphaeifolium*.” [“a species that I found in the Jussieu herbarium, which is illustrated in the ninth vol. of the *Hort. Malabar.*, t. 22, and to which I gave the name of *nymphaeifolium*.”]. Until original material is located, we designate tab. 22 in RHEEDE (1689) as the lectotype.

12. *Calendula chrysanthemifolia* Vent., Jard. Malmaison 1: tab. 56. 1804.

= *Dimorphotheca chrysanthemifolia* (Vent.) DC.

Lectotypus (designated here): [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* (G [G00341480]!; isolecto-: G [G00341479]!).

Notes. – Two specimens of a single gathering have been located in Ventenat’s herbarium at G. It represents the plant cultivated in Empress Joséphine’s garden. The more complete collection is designated here as the lectotype.

13. *Casearia ulmifolia* Vahl ex Vent., Choix Pl.: sub tab. 46. 1808.

Lectotypus (first step designated by SLEUMER, 1980: 324; second step designated here): TRINIDAD: 1778, Ryan 20 (C [C10012565] image seen; isolecto-: BM [BM000624343] image seen, BR [BR0000005104826] image seen, C [C10012566, C10012567, C10012568, C10012569, C10012570, C10012571] images seen, G [G00364133]!, L [L0010781] image seen, P-JU n° 16215 [P00678826]!).

Notes. – Ventenat validated Vahl’s name by publishing a few comparative leaf characters: “[bords de feuille] finement dentés en scie”. SLEUMER (1980: 324) correctly considered the type as being held at C. His implicit lectotypification needs a second step designation as seven sheets exist at C. In their revision of the *Casearia ulmifolia* complex, MARQUETE & MANSANO (2012: 201) failed to properly designate a single sheet at C as the lectotype. We designate the most complete sheet in C as the lectotype. Several isolectotypes are known, among them one in Ventenat’s herbarium. We are not in agreement with previous authors (SLEUMER, 1980; MARQUETE & MANSANO, 2012) and do not consider the collection in G-DC [G00476917] as elements of original material.

14. *Casuarina distyla* Vent., Descr. Pl. Nouv.: tab. 62. 1802.

= *Allocasuarina distyla* (Vent.) L.A.S. Johnson

Typus: [AUSTRALIA]: Hort. Cels, *Ventenat s.n.* (holo-: G [G00341454]!; iso-: NSW [NSW62357] image seen).

Notes. – JOHNSON (1992: 75) transferred *Casuarina distyla* to his new genus *Allocasuarina* L.A.S. Johnson. The author designated the collection at G from Cels’s garden as the lectotype. Only one collection is extant in Ventenat’s herbarium and should therefore be considered as the holotype. A clastotype is present in NSW and should be considered as the isotype. The two other collections mentioned by JOHNSON (1992: 75) in K [K000872501] (Herb. Forsyth. purchased 1835) and P [P00735055] (“donné par Bonpland en 1835”) have been very likely collected later in Cels’s garden and are here not considered as isotypes. The provenance of the plant has been recorded as “Cap de Diemen” in Tasmania but is clearly from New South Wales (JOHNSON, 1992).

15. *Celsia lanceolata* Vent., Descr. Pl. Nouv.: tab. 27. 1801.

Lectotypus (designated here): [IRAQ]: Hort. Cels, *Ventenat s.n.* (G [G00341500]!; isolecto-: G-BOIS [G00330749]!).

= *Verbascum assureense* Bornm. & Hand.-Mazz.

Notes. – The name *Celsia lanceolata* has been validated in *Descriptions* in 1801 based on a Bruguière and Olivier collection from Iraq (between Mosul and Baghdad) and cultivated in Cels’s garden. The specimen in Ventenat’s herbarium from Cels’s garden is designated here as the lectotype with a duplicate in G-BOIS. Four specimens collected between Mosul and Baghdad by Bruguière and Olivier have been located in G-BOIS [G00330748, G00330750] and P [P03287379, P03287380]. They are here considered as elements of original material. HUBER-MORATH (1981: 25) in his revision of *Verbascum* L. for *Flora Iranica* did not cite any type for *Celsia lanceolata*.

16. *Cheiranthus linearis* Vent., Jard. Malmaison 2: sub tab. 83. 1804 [nom. illeg.] [non *C. linearis* Forssk.].

Lectotypus (designated here): [SPAIN. Canary Islands, Tenerife]: Hort. Cels, *Ventenat s.n.* (G [G00341602]!).

= *Erysimum semperflorens* (Schousb.) Wettst.

Notes. – Two specimens are present in Ventenat’s herbarium that clearly represent two gatherings. One of the collections came from Cels’s garden and the other from Malmaison [G00341604]. The first gathering is a better specimen and is here designated as the lectotype. Other collections exist from the material brought back by Broussonet while he served as Commissioner of commercial relations in Tenerife in the early 19th century (CANDOLLE, 1809). Those collections are here considered as elements of original material (G-DC [G00149541]).

17. *Cheiranthus longifolius* Vent., Jard. Malmaison 2: tab. 83. 1804.

Lectotypus (designated here): [SPAIN. Canary Islands, Tenerife]: Hort. Cels, *Ventenat s.n.* (G [G00341510]!; isolecto-: G-DC [G00149563]!).

= *Erysimum heritieri* Kuntze

Notes. – Specimens present in Ventenat's herbarium clearly represent two gatherings. One of the collections came from Cels's garden and the other is material brought back by Broussonet (G [G00341595], with a duplicate in G-DC [G00149716]). The gathering from Cels's garden is a better specimen and is here designated as the lectotype.

18. *Chrysanthemum praealtum* Vent., Descr. Pl. Nouv.: tab. 43. 1801.

Lectotypus (designated here): IRAN: Mt. Albourg, *Bruguère & Olivier s.n.* (G [G00341493]!; probable isolecto-: G [G00341494]!).

= *Tanacetum parthenium* (L.) Sch. Bip.

Notes. – Two gatherings have been located for this species: the specimen collected by Bruguère and Olivier in Iran in Ventenat's herbarium and the cultivated specimen from Cels's garden in G-DC [G00450767]. A second collection in Ventenat's herbarium has no information on its origin. The Bruguère and Olivier collection is here designated as the lectotype. A second collection at G [G00341494] is considered as a probable isolectotype but could also represent a Cels's garden collection and should then be considered as a duplicate of the material in G-DC.

19. *Clerodendrum viscosum* Vent., Jard. Malmaison 1: tab. 25. 1803.

Lectotypus (designated here): [INDONESIA. Java]: Hort. Cels, *Ventenat s.n.* (G [G00341557]!).

= *Clerodendrum infortunatum* L.

Notes. – When validating the name *Clerodendrum viscosum* Ventenat specifically wrote that his species concept excluded what was named *C. infortunatum* L. in P-JU. Two collections exist in Ventenat's herbarium. A cultivated specimen from Cels's garden and a second with two leaves with a label "Dedit Juss., exclusis syn. et figuris Rhumphii et Burmanii" and two additional leaves with a blank label attached. The two leaves "Dedit Juss." clearly represent what Ventenat called *C. infortunatum* and should not be considered as type material of his *C. viscosum*. No further material has been located at P-JU. In spite of any additional information regarding the two leaves

present on the sheet we prefer to consider this specimen [G00341644] as original material whereas the cultivated plant from Cels's garden is designated here as the lectotype.

20. *Colletia ephedra* Vent., Descr. Pl. Nouv.: sub tab. 92. 1803.

= *Retanilla ephedra* (Vent.) Brongn.

Lectotypus (first step designated by TORTOSA, 1992: 235; second step designated here): CHILE: *sine loc.*, *Dombey s.n.* (P [P01818929]!; isolecto-: G [G00341460, G00341672]!, G-DC [G00476003]!, P [P01818930, P01818931]!, P-JU n° 16153 [P00678779]!).

= *Colletia obcordata* Vent., Descr. Pl. Nouv.: tab. 92. 1803. **Lectotypus** (designated here): [CHILE]: Hort. Cels, *Ventenat s.n.* (G [G00341459]!; isolecto-: G [G00341458]!, G-DC [G00476011]!, P-JU n° 16157 [P00667163]!).

Notes. – Ventenat in *Descriptions* (1803: sub tab. 92) validated the name *Colletia ephedra* based on a Joseph Dombey (1742-1794) specimen from Peru. Dombey was a French explorer who collected in Chile, Peru and Brazil (STAFLEU & COWAN, 1986). TORTOSA (1992: 235) designated an holotype specimen at P. His implicit lectotypification needs a second step designation as three sheets exist at P. We designate here the most complete sheet at P as the lectotype. Several duplicates have been found. TORTOSA (1992: 235) corrected the origin of the material collected by Dombey as from Chile and not Peru. *Colletia ephedra* has been illustrated in *Choix* tab. 16 in late 1803 or early 1804.

Two specimens of a single gathering of *C. obcordata* have been located in Ventenat's herbarium at G. It represents the plant cultivated in Cels's garden. The most complete collection is designated here as the lectotype. TORTOSA (1992: 235) designated the type specimen at P but no collection has been located at P in the general collection.

21. *Correa revoluta* Vent., Jard. Malmaison 1: sub tab. 13. 1803.

= *Correa reflexa* (Labill.) Vent.

Typus: AUSTRALIA: *sine loc.*, *Neé s.n.* (holo-: G [G00439910]!; iso-: MA-305905!, MA-305906!).

Notes. – The name *Correa revoluta* was validated with a short latin diagnosis ending in the note: "Specimen a Dom. Cavanilles datum". The only collection we found at G bears a label in Cavanilles's handwriting but provides no details on the collector. A visit at MA revealed that two duplicates exist in the general collection with Cavanilles's handwriting: "Mazentoxerum reflexum? Correa Smith", which is the same text as on the label in Ventenat's herbarium. This collection is in fact from Luis Néé (1734-1803), who was one of the two botanists besides Thaddäus

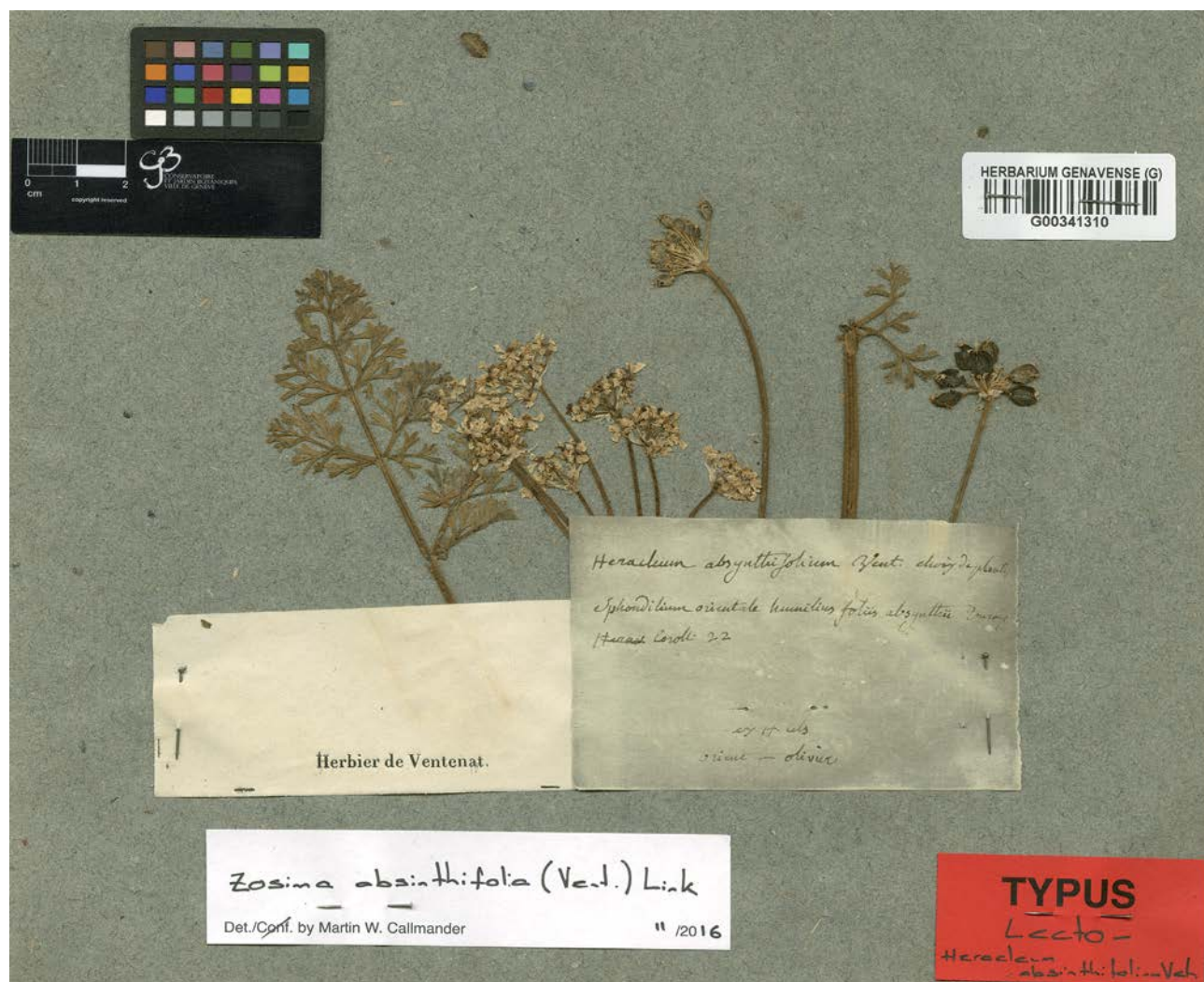


Fig. 5. – Ventenat's handwriting and typical footer labels at G on the lectotype of *Heracleum absinthifolium* Vent.

Haenke (1761-1817) who took part in the Malaspina Expedition (1789-1794) (MUÑOZ GARMENDIA, 2001) which aimed to establish a rational and coherent description of the possessions of the Spanish monarchy. The plants collected by Neé during this expedition served for the descriptions of new species by several botanists, among them Cavanilles and Candolle (GALERA, 2016).

22. *Dalea purpurea* Vent., Descr. Pl. Nouv.: tab. 40. 1801.

Lectotypus (designated here): UNITED STATES. Illinois: Michaux s.n. (G [G00341562]!; isolecto-: P [P02141637, P02141638]!, P-MICH [P00667210 in part]!).

Notes. – In the Ventenat herbarium, two specimens have been found. One is clearly the one sent by Michaux from Illinois and the second is a sterile collection cultivated in Cels's garden [G00341561]. We choose to designate as the lectotype

the Michaux s.n. collection as it is fertile and better represents the morphology of *Dalea purpurea*. Michaux collections determined as *Petalostemon violaceus* Michx. and kept in P and P-MICH are considered as isolectotypes as they do represent the same collection that Ventenat received from Illinois which would be described by him as *Dalea purpurea*. In P-MICH [P00667210] only the collections on the far left and far right are type material.

23. *Dianthus monadelphus* Vent., Descr. Pl. Nouv.: tab. 39. 1801.

Lectotypus (designated here): [SYRIA]: (Ventenat, Descr. Pl. Nouv.: tab. 39. 1801).

Notes. – No trustful collection of this species has been located. Among the undetermined specimen of *Dianthus* L. kept in P and originating from Asia, we found three

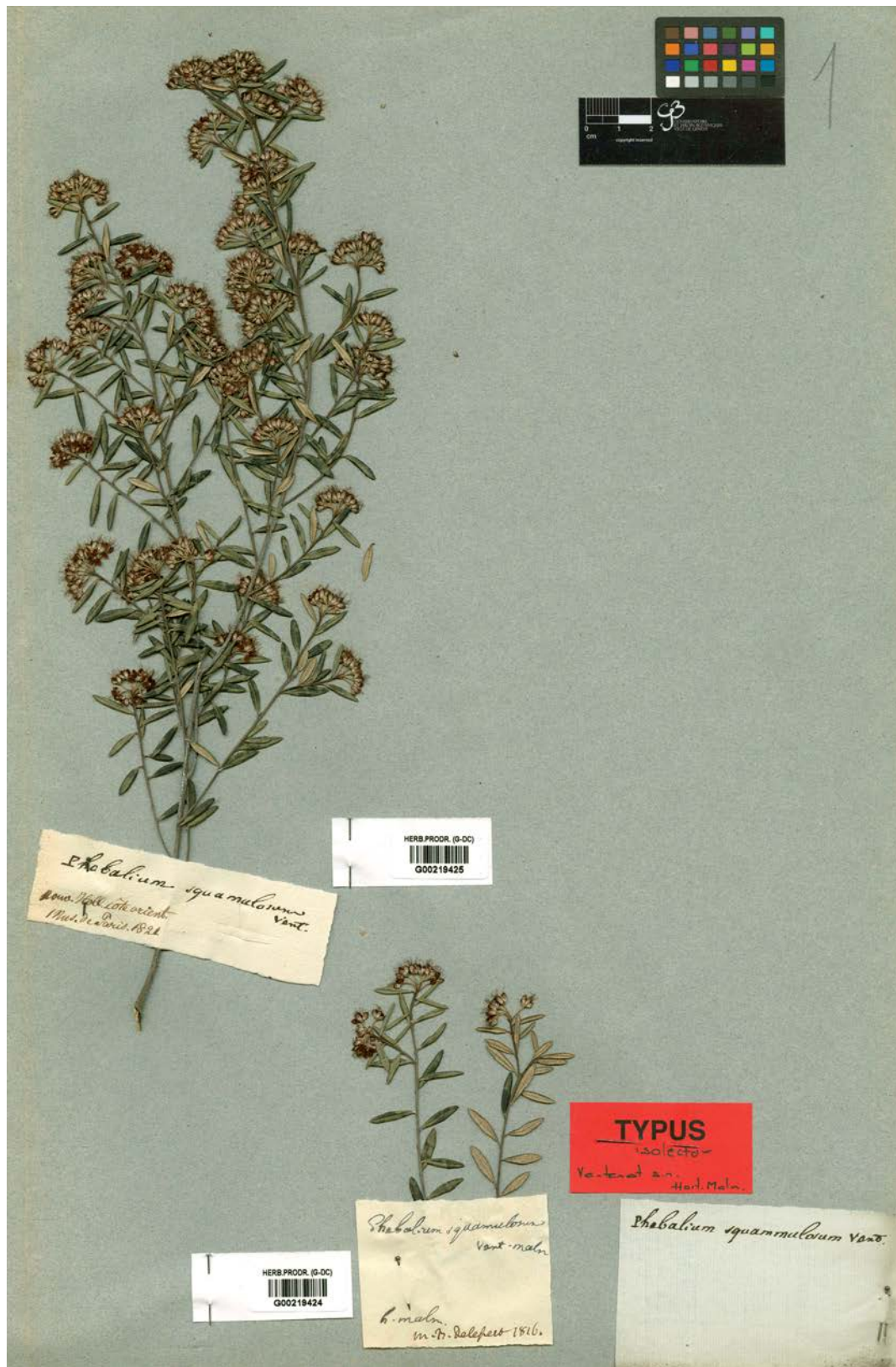


Fig. 6. – Isolectotype of *Phebalium squamulosum* Vent. in G-DC showing the mention "M. B. Delessert 1816" (see p. 94).

collections gathered by Bruguère and Olivier [P04982230, P04982231, P04982239]. These collections may represent type material but we prefer to designate the plate tab. 39 as the lectotype until trustful type material can be assigned to this species.

24. *Diosma cerefolia* Vent., Jard. Malmaison 2: tab. 83. 1805.

= *Agathosma cerefolia* (Vent.) Bartl. & H.L.Wendl.

Lectotypus (designated here): [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* (G [G00006331]!; isolecto-: G-DC [G00219310]!).

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "M. B. Delessert 1816". The later was therefore part of Ventenat's herbarium before Delessert gave this fragment to Candolle (see introduction). The collection in Ventenat's herbarium is designated here as the lectotype.

Another collection in G-DC [G00219309] originating from Malmaison has been collected after the validation of the name *Diosma cerefolia* and cannot be considered as original material.

25. *Echium thyrsoideum* Juss. ex Vent., Jard. Malmaison 2: sub tab. 97. 1805.

Lectotypus (designated here): EUROPE: *Anon. s.n.* (P-JU n° 6609 [P00667187]!).

= *Echium maculatum* L.

Notes. – Ventenat clearly referred to a plant that was communicated to him by Jussieu. No material was found at G and the collection in the P-JU herbarium is designated here as the lectotype.

26. *Epilobium tomentosum* Vent., Descr. Pl. Nouv.: tab. 90. 1802.

Lectotypus (designated here): [IRAN]: Hort. Cels, *Ventenat s.n.* (G [G00406205]!; probable isolecto-: G-DC [G00654566]!).

= *Epilobium hirsutum* L.

Notes. – Two specimens of a single gathering have been located in Ventenat's herbarium at G. It represents the plant cultivated in Cels's garden. A collection in G-DC with the mention "h. Cels" may represents original material. We therefore prefer to designate here the lectotype on the unique collection extant in Ventenat's herbarium.

27. *Eupatorium ayapana* Vent., Jard. Malmaison 1: tab. 3. 1803.

Lectotypus (designated here): [BRAZIL]: Hort. Malmaison, *Ventenat s.n.* (G [G00341565 right hand specimen]!; probable isolecto-: G-DC [G00495105]!).

= *Ayapana triplinervis* (Vahl) R.M. King & H. Rob.

Notes. – The only sheet in the Ventenat herbarium consists of two gatherings. The plant cultivated at Malmaison and a Michaux collection from Mauritius [G00341565 left hand specimen] where the plant had for long been cultivated. We designate here as the lectotype the specimen from Malmaison as it is the most complete material. A probable isolectotype exists in G-DC.

28. *Heracleum absinthifolium* Vent., Choix Pl.: tab. 7. 1803.

= *Zosima absinthifolia* (Vent.) Link

Lectotypus (designated here): [TURKEY]: Hort. Cels, *Ventenat s.n.* (G [G00341310]!) (Fig. 5).

Notes. – When validating the name *Heracleum absinthifolium*, Ventenat referred to "Sphondylium orientale humulus, foliis absinthii", a pre-linnean name coined by Joseph Pitton de Tournefort (1656-1708) in the herbaria of Vaillant and Jussieu. A specimen has been located in Herb. Vaillant and is here considered as original material [P00662760]. Further collections of Bruguère and Olivier from Turkey have been located in G-DC [G00477269]. The only collection from Cels's garden in Ventenat's herbarium is designated here as the lectotype. Recent revisions of the genus *Zosima* Hoffm. (ALAVA, 1987; MENEMEN & JURY, 2001) cited as type material a collection at G with the locality information taken from Ventenat; however no collection exists with this locality.

29. *Hypericum dolabriforme* Vent., Descr. Pl. Nouv.: tab. 45. 1801.

Lectotypus (designated by ROBSON, 1996: 123): UNITED STATES. Kentucky: *Michaux s.n.* (G [G00341526]!; isolecto-: P [P01901389, P02442087, P02442088, P02442089, P02442090]!, P-JU n° 11841 [P00667214]!, P-MICH [P00667207, P00667217]!).

Notes. – *Hypericum dolabriforme* is endemic to the southeastern regions of the United States (from southern Indiana to northwestern Georgia) (ROBSON, 1996). Only a single specimen exists in Ventenat's herbarium, i.e. the Michaux collection from Kentucky. MICHAUX (1803: 81) validated the name *H. procumbens* Michx. [nom. illeg.] [non Desf. ex Willd.] based on the same material. ROBSON

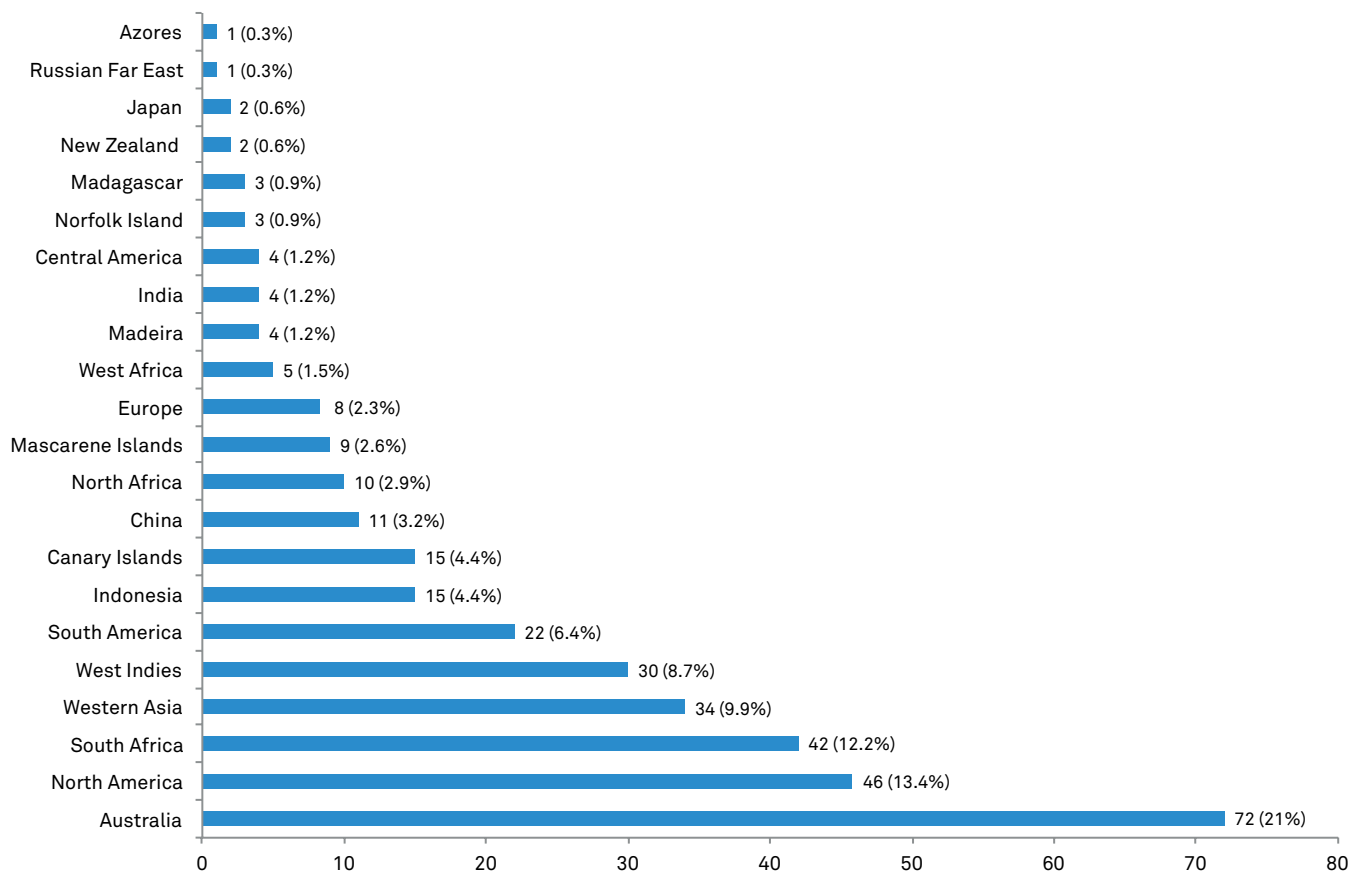


Fig. 7. – Geographical origins of the 343 taxa cited by Ventenat between 1800 and 1808 in *Descriptions, Choix* and *Jardin de Malmaison*. Geographical regions refer to Appendix II.

(1996: 123) implicitly lectotyped Ventenat's name by referring to the unique specimen at G. A collection of this species given by Ventenat to Jussieu from Cels's garden in 1803 is here considered as original material (P-JU n° 11832 [P00667211]).

30. *Illicium parviflorum* Michx. ex Vent., Tabl. Règn. Vég. 3: 71. 1799 [cited in Descr. Pl. Nouv.: tab. 22. 1801].

Lectotypus (designated here): UNITED STATES. Florida: Lake George, *Michaux s.n.* (G [G00341506]!; isolecto-: P [P01656597 upper specimen]!, P-MICH [P00667213]!).

Notes. – LIN (2000: 177) in his revision of the genus cited the type of the name of this species as: "U.S. Lake George, details unknown". This cannot be accepted as an implicit lectotypification. Two specimens exist at G: the cultivated specimen from Cels's garden [G00341505] and the collection from Michaux. The latter is designated as the lectotype as it is more complete and two isolectotypes have been located in the P and in P-MICH herbaria respectively.

A specimen annotated in Ventenat's hand "*Illicium parviflorum* H. Cels t. 22" and in D. F. K. v. Schlechtendal's hand "Ventenat. W [illdenow]" [B-W 10382-01 0] is also available for interpretation of this name.

31. *Inga filipes* Vent. in Mém. Cl. Sci. Math. Inst. Natl. France 8: 6. 1807 [also in Choix. Pl.: tab. 38. 1807].

= *Cojoba filipes* (Vent.) Barneby & J.W. Grimes

Lectotypus (designated here): DOMINICAN REPUBLIC / HAITI: "St. Domingo", *Poiteau s.n.* (G [G00341450]!; isolecto-: G [G00341677]!, G-DC [G00652190]!).

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "M. B. Delessert 1816". The latter was therefore part of Ventenat's herbarium before Delessert gave this fragment to Candolle (see introduction). The collection in Ventenat's herbarium is designated here as the lectotype. A Poiteau duplicate is also present in G [G00341677].

32. *Inula gnaphalodes* Vent., Descr. Pl. Nouv.: tab. 75. 1802.

= *Pulicaria gnaphalodes* (Vent.) Boiss.

Lectotypus (designated here): [IRAN]: *Anon. s.n.* (G [G00341476 right-hand specimen]!).

Notes. – This species was described on the basis of material brought back by Bruguière and Olivier from Iran. Several collections have been located of this material at G-DC and P. A single collection exists in Ventenat's herbarium but with two gatherings. The left part represents the cultivated collection from Cels's garden and the right part a collection with, possibly, Desfontaines's handwriting. We have not been able to trace this collection in the historical nor general collections at P. LACK (1980: 116) designated tab. 75 in *Descriptions* as the lectotype. The finding of original material supersedes this explicit lectotypification. We prefer to designate here the collection *Anon. s.n.* as the lectotype despite the fact that we neither know the collector nor the origin. This collection is a flowering specimen and possibly used for the preparation of the drawing. The cultivated collection from Cels's garden is sterile and is here considered as original material G [G00341476 left-hand specimen]. Other original material collected by Bruguière and Olivier documents the morphology of this plant in the wild (G-DC [G00468136], P [P02812002, P02812003, P02812004, P03295331]).

33. *Ionidium buxifolium* Vent., Jard. Malmaison 1: sub tab. 27. 1803.

= *Afrohybanthus buxifolius* (Vent.) Flicker

Lectotypus (designated here): MADAGASCAR: *sine loc.*, Commerson *s.n.* (P-JU n° 12784 [P00667193]!; isolecto-: G [G00341436]!).

Notes. – FLICKER & BALLARD (2015: 44) transferred *Ionidium buxifolium* to their new genus *Afrohybanthus* Flicker (*Violaceae*). The authors cited the collection at P-JU as the holotype. Ventenat in *Jardin de Malmaison* (1803: sub tab. 27) explicitly mentioned “ex Herb Juss”. However, at G a very fragmented clastotype exists. We therefore considered that the collection in P-JU should be designated as the lectotype since it is a much better preserved collection and the specimen was used by Ventenat for the validation of the name *Ionidium buxifolium*.

34. *Ionidium heterophyllum* Vent., Jard. Malmaison 1: sub tab. 27. 1803.

Lectotypus (designated here): CHINA: *sine loc.*, d'Incarville 109 (P-JU n° 12788 [P00667186]!; isolecto-: G [G00341597]!).

= *Afrohybanthus enneaspermus* (L.) Flicker

Notes. – FLICKER & BALLARD (2015: 48) cited the collection at P-JU as the holotype. Ventenat in *Jardin de Malmaison* (1803: sub tab. 27) clearly mentioned “ex Herb Juss” and the collection deposited in his herbarium at P-JU should be considered as the holotype. Nevertheless, as above under *Ionidium buxifolium*, the G collection is a very fragmented clastotype and the collection deposited at P-JU is a much better preserved collection and was used by Ventenat for the description of *Ionidium heterophyllum*. The P-JU collection is therefore designated as the lectotype but cannot be considered as the holotype as given by FLICKER & BALLARD (2015).

35. *Ionidium strictum* Vent., Jard. Malmaison 1: sub tab. 27. 1803.

= *Viola stricta* (Vent.) Poir.

Lectotypus (designated here): DOMINICAN REPUBLIC / HAITI: “St. Domingo”, Poiteau *s.n.* (P-JU n° 12799 [P00672092]!; isolecto-: G-DC [G00209948]!, P-JU n° 12799 [P00672093]!).

Notes. – No collection has been located at G. Two collections have been located at P-JU and one at G-DC. The more complete collection at P-JU is designated here as the lectotype and the remaining collections are considered as isolectotypes.

36. *Jatropha bernandiifolia* Vent., Jard. Malmaison 1: sub tab. 52. 1804.

Lectotypus (designated here): UNITED STATES. Puerto Rico: *sine loc.*, Riedlé *s.n.* (P [P04829499]!; isolecto-: P-JU n° 16506 [P00678913]!).

Notes. – DEHGAN (2012: 145) cited a Poiteau *s.n.* collection as type collected in Santo Domingo [P04829428]. Ventenat in *Jardin de Malmaison* (1804: sub tab. 52) clearly stated that he has obtained this taxon from Riedlé in Puerto Rico while travelling on the *Belle-Angélique* to the West Indies and Porto Rico with his friend Baudin (see introduction).

No collection of *Jatropha bernandiifolia* exists at G but two collections have been found in P. On the collection Riedlé *s.n.* [P04829499] “graines n° 131” has been written and this collection does represent the collection form which Ventenat obtained seeds. It is here designated as the lectotype. A Herb. Baudin collection in P-JU is considered as isolectotype because it also represents material gathered by Riedlé (see above).

37. *Lantana nivea* Vent., Jard. Malmaison 1: tab. 8. 1803.

Lectotypus (designated here): [BRAZIL]: Hort. Malmaison, Ventenat *s.n.* (G [G00341488]!; isolecto-: G [G00341487]!).

Notes. – Ventenat stated that he had received material of this plant from gardens in the East Indies but it seems clear that the plant originated in southern Brazil (SANDERS, 2006). The latter author did not locate the holotype and designated the colour copper engraving in Ventenat's *Jardin de Malmaison* (1803: tab. 8) as the lectotype and also designated as the epitype a plant cultivated in Paris held at C (*Siebke s.n.*). The finding of the type material in Ventenat's herbarium supersedes this lectotypification. Two collections exist in Ventenat's herbarium. The better preserved sheet is designated here as the lectotype.

38. *Laserpitium triquetrum* Vent., Descr. Pl. Nouv.: tab. 97. 1803.

= *Heptaptera triquetra* (Vent.) Tutin

Lectotypus (designated here): [TURKEY]: Hort. Cels, *Ventenat s.n.* (G [G00341535]!).

Notes. – The plant cultivated by Cels originated from a Bruguière and Olivier collection from Turkey. The cultivated specimen from Cels in Ventenat's herbarium is designated as the lectotype as it represents the original material. Collections in G-BOIS [G00330753, G00330754] and P [P04274054] are considered here as original material. HERRNSTADT & HEYN (1971: 106) designated a type at G and copied the locality given by Ventenat in *Descriptions* (1803: tab. 8): "Constantinople sur les bords du Canal". No Bruguière and Olivier collection exists with this locality (see Material and Methods chapter) and their potential implicit lectotypification is not accepted here. The G-BOIS collections have "voyage de Bruguière & Olivier en Orient" even if BOISSIER (1872: 944) gave "Hab. in collibus ad Bosphorum proper Byzantium (Oliv.)".

39. *Leptospermum trilobulare* Vent., Jard. Malmaison 2: tab. 88. 1805.

Lectotypus (designated here): [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* (G [G00341502 upper specimen]!).

= *Leptospermum arachnoides* Gaertn.

Notes. – A single herbarium sheet was found in Ventenat's herbarium, on which two gatherings are mounted, one from Cels's garden [G00341502 lower specimen] and the other from Malmaison. The Malmaison collection is here designated as the lectotype because the plant has been published in *Jardin de Malmaison*. No type was designated in THOMSON (1999)'s revision of the genus *Leptospermum* J.R. Forst. & G. Forst. in Australia.

40. *Lithospermum decumbens* Vent., Descr. Pl. Nouv.: tab. 37. 1801.

= *Arnebia decumbens* (Vent.) Coss. & Kralik

Lectotypus (designated here): IRAQ: de Bagdad à Mossoul, *Bruguière & Olivier s.n.* (P [P03877945]!; isolecto-: G-DC [G00149288]!; probable isolecto-: G [G00341671]!).

Notes. – A single specimen has been found in Ventenat's herbarium. The collection probably lost its original label and only the locality "Barbarie" is noted though not in Ventenat's handwriting. Two Bruguière and Olivier collections with a clear reference to the type locality (Baghdad and Mosul in Iraq) have been located. We designate the sheet at P [P03877945] as the lectotype because it is more complete than the more fragmented collection in G-DC. We consider the collection in Ventenat's herbarium at G as a probable isolectotype.

41. *Lunaria suffruticosa* Vent., Descr. Pl. Nouv.: tab. 19. 1800.

= *Fibigia suffruticosa* (Vent.) Sweet

Lectotypus (designated here): IRAN: *sine loc.*, [*Bruguière & Olivier s.n.* (G [G00341542]!; isolecto-: G-DC [G00204574, G00204706]!, P [P00747689]!).

Notes. – The plant cultivated in Cels's garden originated from a Michaux collection from Persia. Ventenat in *Descriptions* (1800: tab. 19) nevertheless wrote that he had obtained the fruits from Olivier from the same locality where Michaux had collected. In Ventenat's herbarium, no cultivated plant exists. A single collection carries the label: "Lunaria sp. n. e persia Ded. Olivier". This collection is here designated as the lectotype with duplicates in G-DC and P. The Michaux collections originating from Persia are here considered as probable elements of original material (G-DC [G00204704], P [P00747690]). CULLEN (1965: 356) in his treatment of the genus *Fibigia* Medik. for *Flora of Turkey* regarded both Michaux and Olivier collections as syntypes.

A specimen annotated in Ventenat's hand "Lunaria suffruticosa H. Cels pl. 19." and in D. F. K. v. Schlechtendal's hand "Ventenat. W[ilddenow]" (B-W n° 11945) is also available for interpretation of this name.

42. *Melaleuca gnidiifolia* Vent., Jard. Malmaison 1: tab. 4. 1803.

Lectotypus (designated here): [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* (G [G00341462]!; isolecto-: G-DC [G00659775]!).

= *Melaleuca thymifolia* Sm.

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "M. B. Delessert 1816". The later was therefore part of Ventenat's herbarium before Delessert gave this fragment Candolle (see introduction). The collection from Empress Joséphine's garden in Ventenat's herbarium is designated here as the lectotype.

43. *Melaleuca myrtifolia* Vent., Jard. Malmaison 1: tab. 47. 1804.

Lectotypus (designated here): **AUSTRALIA**: *sine loc.*, *L. Ventenat s.n.* (holo-: G [G00341463]!).

Notes. – Two gatherings have been located for this species. The specimen collected by Louis Ventenat in Australia in Ventenat's herbarium and the cultivated specimen from Malmaison in G-DC [G00659788]. The Louis Ventenat collection in Ventenat's herbarium is designated here as the lectotype.

44. *Mesembryanthemum carinatum* Vent., Jard. Malmaison 2: tab. 109. 1805.

Lectotypus (designated here): **[SOUTH AFRICA]**: (Ventenat, Jard. Malmaison 2: tab. 109. 1805) (Fig. 8).

= *Erepsia lacera* (Haw.) S. Liede

Notes. – No original material has been located of *Mesembryanthemum carinatum*. Surprisingly this species is not mentioned in CANDOLLE (1828)'s *Mesembryanthemum* L. treatment. Plate 109 in the second volume of *Jardin de Malmaison* is therefore designated as the lectotype as long as no original material has been located.

45. *Metrosideros lophantha* Vent., Descr. Pl. Nouv.: tab. 69. 1802.

Lectotypus (designated here): **[AUSTRALIA]**: Hort. Cels, *Ventenat s.n.* (G [G00341539]!; isolecto-: G [G00341540, G00341541]!).

= *Callistemon salignus* (Sm.) Colv. ex Sweet

Notes. – Three specimens of a single gathering have been located in Ventenat's herbarium at G. They represent the plant cultivated in Cels's garden. The more complete collection is designated here as the lectotype.

46. *Mimosa floribunda* Vent., Choix Pl.: tab. 13. 1803.

= *Acacia floribunda* (Vent.) Willd.

Lectotypus (designated here): **[AUSTRALIA]**: Hort. Cels, *Ventenat s.n.* (G [G00341448]!; isolecto-: G [G00341446]!, G-DC [G00652311]!, probable G-DC [G00652351]!).

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "M. B. Delessert 1816". The later was therefore part of Ventenat's herbarium before Delessert gave this fragment to Candolle (see introduction). The collection from Cels's garden in Ventenat's herbarium is designated here as the lectotype. A specimen with the mention "h. cels" in G-DC may represent a duplicate.

47. *Mimosa juniperina* Vent., Jard. Malmaison 2: tab. 64. 1804.

Lectotypus (designated here): **[AUSTRALIA]**: Hort. Malmaison, *Ventenat s.n.* (G [G00341521]!; isolecto-: G [G00341519]!).

= *Acacia ulicifolia* (Salisb.) Court

Notes. – Two gatherings have been found in Ventenat's herbarium at G. The collection from Port Jackson in Australia [G00341520] where the plant has been discovered and the plant cultivated in Malmaison. We designate the cultivated collection as the lectotype as it is more complete and includes both flowers and fruits.

48. *Myrtus horizontalis* Vent., Jard. Malmaison 1: tab. 60. 1804.

Lectotypus (designated here): **[WEST INDIES]**: Hort. Malmaison, *Ventenat s.n.* (G [G00341464]!; isolecto-: G-DC [G00658454]!).

= *Eugenia disticha* (Sw.) DC.

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "M. B. Delessert 1816". The later was therefore part of Ventenat's herbarium before Delessert gave this fragment to Candolle (see introduction). The collection in Ventenat's herbarium is designated here as the lectotype.

49. *Nemesia foetens* Vent., Jard. Malmaison 1: tab. 41. 1804.

Lectotypus (designated here): **[SOUTH AFRICA]**: Hort. Malmaison, *Ventenat s.n.* (G [G00341534]!; isolecto-: G-DC [G00654953]!).

= *Nemesia fruticans* (Thunb.) Benth.

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "h. Ventenat. B. Delessert 1810 [sic]". The later was therefore part of Ventenat's herbarium before Delessert gave this fragment to Candolle (see introduction). The collection in Ventenat's herbarium is designated here as the lectotype.



Fig. 8. – Lectotype of *Mesembryanthemum carinatum* Vent. Colour copper engraving by Allain based on a watercolour by Pierre-Joseph Redouté. P.E. Ventenat, Jardin de la Malmaison: tab. 109. 1805. [Bibliothèque des Conservatoire et Jardin botaniques de la Ville de Genève].

50. *Nemesia linearis* Vent., Jard. Malmaison 1: sub tab. 41. 1804.

Lectotypus (designated here): **SOUTH AFRICA**: Cape, *Sonnerat s.n.* (P-JU n° 6170 [P00667181]!).

Notes. – No specimen has been located at G. Ventenat clearly referred to Jussieu's herbarium ("ex Juss.") and the only specimen located for this species in P-JU is here designated as the lectotype.

51. *Nepeta longiflora* Vent., Descr. Pl. Nouv.: tab. 66. 1802.

Lectotypus (designated here): **IRAN**: Hort. Cels, *Ventenat s.n.* (G [G00341508 excl. left-hand specimen]!; isolecto-: P-JU n° 5385 [P00658191]!).

Notes. – The name *Nepeta longiflora* has been validated in *Descriptions* in 1802 based on a plant cultivated in Cels's garden originating from a Bruguière and Olivier collection from Mt Albours in Persia. The only specimen in Ventenat's herbarium is a mixed gathering with material from Cels's garden and Bruguière and Olivier. The plant cultivated in Cels's garden is designated here as the lectotype with a duplicate in P-JU. A single collection from Mt Albours collected by Bruguière and Olivier has been located in G-BOIS [G00330752] and is here considered as original material. Several collections from the expedition of Bruguière and Olivier in Persia are held at P [P04177880, P04177881, P04177886, P04177888] and one in G-DC [G006554857] but none seems to be from Mt Albours but rather from Teheran. They may also represent elements of original material of *Nepeta longiflora*.

52. *Nicotiana undulata* Vent., Jard. Malmaison 1: tab. 10. 1803 [nom illeg.] [non *N. undulata* Ruiz & Pavon].

= *Nicotiana suaveolens* Lehm.

Lectotypus (designated here): **AUSTRALIA**: Hort. Malmaison, *Ventenat s.n.* (G [G00341437]!; isolecto-: G [G00341600]!).

Notes. – Two specimens of a single gathering have been located in Ventenat's herbarium at G. They represent the plant cultivated in Joséphine's garden. The more complete collection is here designated as the lectotype.

53. *Notelaea ligustrina* Vent., Choix Pl.: sub tab. 25. 1804.

Lectotypus (designated here): **AUSTRALIA. Tasmania**: Golfe d'Entrecasteaux, près la terre de Diemen, *Leschenault de la Tour s.n.* (P-JU n° 4889A [P00657313]!; isolecto-: G [G00341528]!).

Notes. – The extant collection in Ventenat's herbarium is a sterile clastotype. Ventenat clearly refers to Jussieu's herbarium in the description of this species and the more complete material in P-JU is here designated as the lectotype. GREEN (1968: 364) in the revision of the genus *Notelaea* Vent. cited as type a *Leschenault s.n.* collection "ex Herb. Jussieu & Ventenat". This can hardly be accepted as an implicit lectotypification as no depository is indicated.

54. *Olivieria decumbens* Vent., Descr. Pl. Nouv.: tab. 21. 1801.

Lectotypus (designated here): **IRAQ**: Hort. Cels, *Ventenat s.n.* (G [G00341532]!; isolecto-: G [G00341531]!, P-JU n° 10396 [P00667197]!).

Notes. – Two gatherings have been located. The original material cultivated in Cels's garden in Ventenat's herbarium with a duplicate in P-JU and two specimens from Iraq collected by Bruguière and Olivier in G-DC [G00664660, G00664720]. The better preserved Cels's garden collection in Ventenat's herbarium is here designated as the lectotype.

55. *Pelargonium radicum* Vent., Jard. Malmaison 2: tab. 65. 1804.

Typus: **[SOUTH AFRICA]**: Hort. Malmaison, *Ventenat s.n.* (holo-: G [G00341658]!) (Fig. 9).

= *Geranium ciliatum* Andrews in Bot. Repos. 4: tab. 247. 1802 [nom. illeg.] [non *G. ciliatum* Cav.].

Notes. – Ventenat in *Jardin de Malmaison* (1804: tab. 65) cited the later homonym *Geranium ciliatum* Andrews as a synonym of his *Pelargonium radicum*. We consider Ventenat's name as independent of Andrews' illegitimate name and not as a replacement name. We therefore consider the collection in the Ventenat herbarium as the holotype.

56. *Phebalium squamulosum* Vent., Jard. Malmaison 2: tab. 102. 1805.

Lectotypus (designated here): **AUSTRALIA**: Hort. Malmaison, *Ventenat s.n.* (G [G00340116]!; isolecto-: G-DC [G00219424]!).

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "M. B. Delessert 1816" (Fig. 6). The later was therefore part of Ventenat's herbarium before Delessert gave this fragment to Candolle (see introduction). The collection in Ventenat's herbarium is designated here as the lectotype.

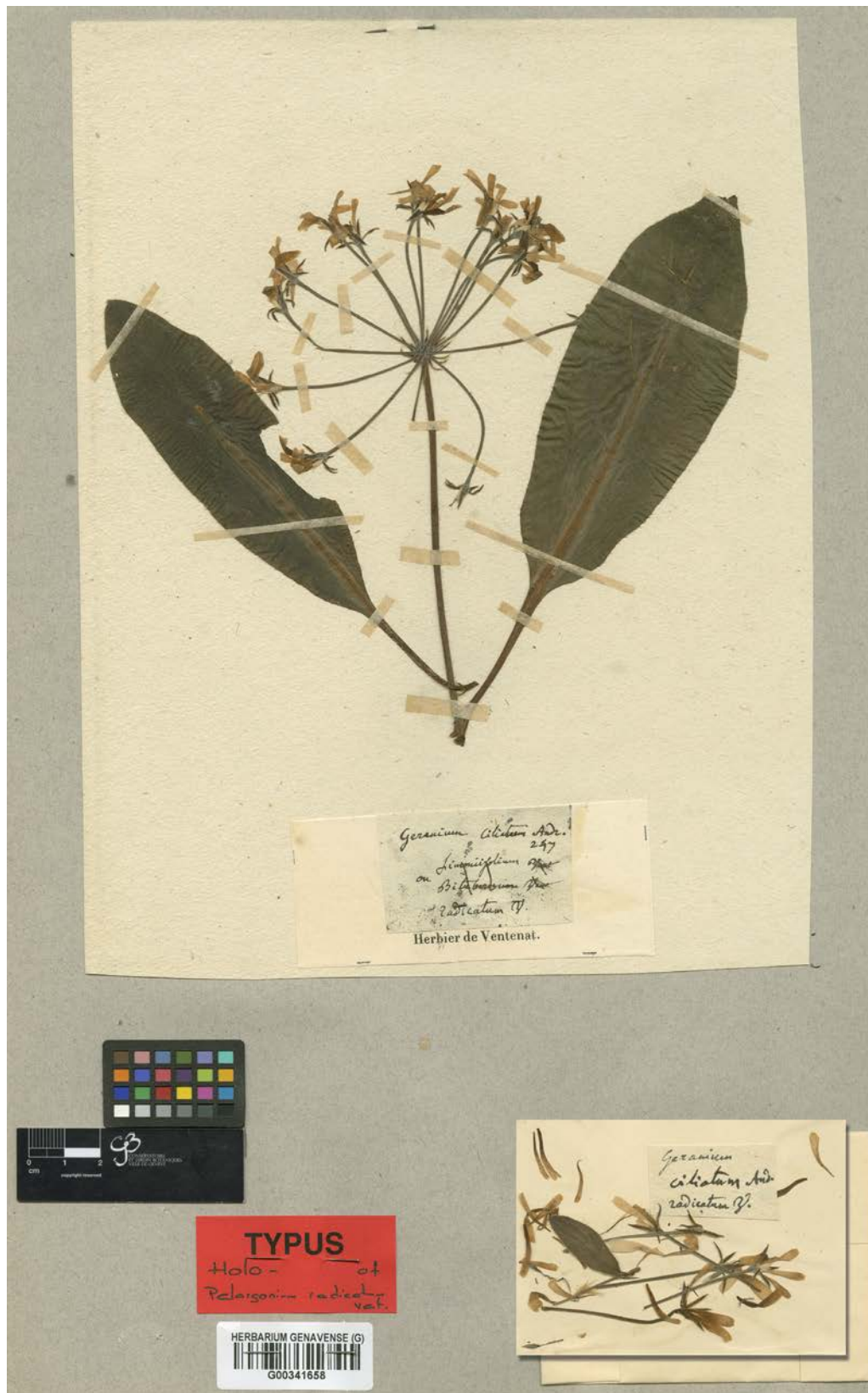


Fig. 9. – Holotype of *Pelargonium radicum* Vent. at G.

57. *Phylica oleifolia* Vent., Jard. Malmaison 1: sub tab. 57. 1804.

Neotypus (designated here): [SOUTH AFRICA]: “Hort. Reg. Paris”, *Anon. s.n.* (P-JU n° 16184 [P00667206]!) (Fig. 10).

Notes. – No type material has been located for *Phylica oleifolia*. A specimen in the P-JU herbarium bears in Jussieu’s handwriting: “Phylica oleifolia Ventn. Mss.”. This cultivated collection from the “Jardin du Roi” [ex Hort. Reg. Paris] is dated 1787. This garden is now known as the “Jardin des Plantes”. Serge Haemmerli (Z) currently undertakes a revision of the genus *Phylica* L. and considers *Phylica oleifolia* as a good species (Haemmerli, pers. comm.). The collection is here designated as neotype because it probably originates from the cultivated plant that Ventenat described in 1804.

58. *Phylica squarrosa* Vent., Jard. Malmaison 1: sub tab. 57. 1804.

Lectotypus (designated here): [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* (G [G00341545]!; isolecto-: G-DC [G00476386]!).

= *Phylica plumosa* L.

Notes. – Two specimens of a single gathering have been located: one in Ventenat’s herbarium at G and a fragment in G-DC with the mention “M. B. Delessert 1816”. The later was therefore part of Ventenat’s herbarium before Delessert gave this fragment to Candolle (see introduction). The collection in Ventenat’s herbarium is designated here as the lectotype.

59. *Phylica thymifolia* Vent., Jard. Malmaison 1: tab. 57. 1804.

Lectotypus (designated here): [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* (G [G00341550]!; isolecto-: G-DC [G00476500]!).

Notes. – Two specimens of a single gathering have been located: one in Ventenat’s herbarium at G and a fragment in G-DC with the mention “M. B. Delessert 1816”. The later was therefore part of Ventenat’s herbarium before Delessert gave this fragment to Candolle (see introduction). The collection in Ventenat’s herbarium is designated here as the lectotype.

60. *Picridium ligulatum* Vent., Jard. Malmaison 2: tab. 68. 1804.

= *Reichardia ligulata* (Vent.) G. Kunkel & Sunding

Lectotypus (designated here): [MOROCCO]: Hort. Malmaison, *Ventenat s.n.* (G [G00341477]!).

Notes. – Two gatherings have been located for this species. A collection in G-DC [G004922721] represents the original material from Broussonet and a collection of cultivated material is still extant in Ventenat’s herbarium. We therefore designate the cultivated plant still in Ventenat’s herbarium as the lectotype.

61. *Platylobium obcordatum* Vent., Jard. Malmaison 1: sub tab. 31. 1804.

= *Bossiaea obcordata* (Vent.) Druce

Lectotypus (designated here): AUSTRALIA. Queensland: Nouvelle-Hollande SW, L. *Ventenat s.n.* (G [G00096594]!).

Notes. – Two gatherings are present in Ventenat’s herbarium. The collection from Queensland [Nouvelle-Hollande du Sud-Ouest] and a cultivated specimen from Malmaison [G00096595]. We designate the specimen collected in the wild as the lectotype. THOMPSON (2012) failed to designate a lectotype in his revision of the genus *Bossiaea* Vent. for eastern Australia.

62. *Poitea galegoides* Vent. in Mém. Cl. Sci. Math. Inst. Natl. France 8: 17. 1807 [cited in Choix Pl.: tab. 36. 1807].

Typus: DOMINICAN REPUBLIC / HAITI: *sine loc.*, *Poiteau s.n.* (holo-: G [G00370600]!; iso-: P [P02925169]!).

Notes. – LAVIN (1992: 45) in his revision of the genus *Poitea* cited a Poiteau collection as holotype in G-DC herbarium. The collection held at G in Ventenat’s herbarium is clearly the holotype and no duplicate has been located in G-DC. Another Poiteau collection at P is considered as an isotype.

63. *Polygonum polygamum* Vent., Descr. Pl. Nouv.: tab. 65. 1802.

Lectotypus (designated here): [UNITED STATES]: Hort. Cels, *Ventenat s.n.* (G [G00341643 specimen on the left]!) (Fig. 11).

Notes. – The only collection of this species in Ventenat’s herbarium is mixed: a Ventenat collection from Cels’s garden and fragments of possible isotypes (G [G00341643 specimen on the right]) of *Polygonella parvifolia* Michx., a name published one year later (MICHXAU, 1803) (with a duplicate in P-JU n° 4290 [P00681748]). The latter name is probably based on the same original material as mentioned on the sheet by Vernon M. Bates (Fig. 11) but we failed to find convincing type material in P-MICH due to the complicated taxonomy of the mixed collections and leave this to a specialist of this genus. HORTON (1963: 198) designated tab. 65 of *Descriptions* in 1802 as the lectotype



Fig. 10. – Neotype of *Phyllica oleifolia* Vent. at P-JU.
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for the name *Polygonum polygamum* but as original material has been found, our lectotypification supersedes the previous one. We designate Ventenat's collection as the lectotype (specimen on the left of the sheet marked with an asterix). Recent molecular phylogenetic data show that *Polygonella* Michx. is embedded in *Polygonum* L. and *Polygonella* is currently recognised at the sub-sectional level within *Polygonum* (SCHUSTER et al., 2011).

64. *Pongamia sericea* Vent., Jard. Malmaison 1: sub tab. 28. 1803.
= *Millettia sericea* (Vent.) Benth.

Lectotypus (designated here): **INDONESIA. Java**: *sine loc.*, IX.1794-V.1796, *Lahaie 2189* (P [P02753433]!; isolecto-: P [P02753436]!).

Notes. – Ventenat in *Jardin de Malmaison* (1803: tab. 28) described a new genus *Pongamia* Vent. based on the illeg. name *P. glabra* Vent. The generic name *Pongamia* is a rejected name [nom. rejic.] against *Millettia* Wight & Arn., a conserved name [nom. cons.] published by WIGHT & ARNOTT in 1834. In the first volume of *Jardin de Malmaison*, Ventenat also published two further species as addenda: *P. grandiflora* Vent. and *P. sericea* Vent. Both species were based on collections made by Felix de Lahaie (1767-1829), while he served as gardener on the Entrecasteaux Expedition. Lahaie's herbarium was bought by the MNHN in 1879 but some collections are also part of Ventenat's herbarium (GUILLAUMIN, 1910). Among the material in the Ventenat herbarium no specimens of *Pongamia* are extant and therefore the name *P. sericea* had to be lectotypified on collections kept in P. The name *Pongamia grandiflora*, currently accepted as *Derris elliptica* (Wall.) Benth., has been implicitly lectotypified by ADEMA (2000: 420) with a specimen in the P-JU herbarium (n° 15666).

65. *Pultenaea ericoides* Vent., Jard. Malmaison 1: tab. 35. 1804.
= *Aotus ericoides* (Vent.) G. Don

Lectotypus (designated here): **[AUSTRALIA]**: Hort. Malmaison, *Ventenat s.n.* (G [G00364790]!; isolecto-: G-DC [G00488197]!).

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "M. B. Delessert 1816". The latter was therefore part of Ventenat's herbarium before Delessert gave this fragment to Candolle (see introduction). The collection in Ventenat's herbarium is designated here as the lectotype.

66. *Rafnia retusa* Vent., Jard. Malmaison 1: tab. 53. 1804.
= *Templetonia retusa* (Vent.) R. Br.

Lectotypus (designated here): **[AUSTRALIA]**: Hort. Cels, *Ventenat s.n.* (G [G00341503]!).

Notes. – Two gatherings are present in Ventenat's herbarium. A flowering specimen from Cels's garden and the fruiting specimen [G00341504] originally brought back by his brother Louis Ventenat from Australia while he took part in the "Entrecasteaux Expedition" (see introduction). The flowering specimen from Cels's garden is here designated as the lectotype. Ross (1982: 3) in the revision of the genus *Templetonia* R. Br. cited a specimen at G as holotype but two specimens exist representing two gatherings. This cannot be considered as an implicit lectotypification.

67. *Ranunculus echinatus* Vent., Descr. Pl. Nouv.: tab. 73. 1802.

Lectotypus (designated here): **[UNITED STATES]**: Hort. Cels, *Ventenat s.n.* (G [G00341564]!; isolecto-: G-DC [G00130232]!).

= *Ranunculus muricatus* L.

Notes. – Two specimens of a single gathering have been located: one in Ventenat's herbarium at G and a fragment in G-DC with the mention "ex herb. Ventenat". The collection in Ventenat's herbarium is designated here as the lectotype.

68. *Redoutea heterophylla* Vent., Descr. Pl. Nouv.: tab. 11. 1800.
= *Cienfuegosia heterophylla* (Vent.) Garcke

Lectotypus (first step designated by FRYXELL, 1969: 211; second step designated here): **UNITED STATES. Virgin Islands**: St. Thomas, *Riedlé s.n.* (G [G00353087 excl. fragm. packet]!; isolecto-: FI [FI006089] image seen, P [P02285953, P02285954, P02285955]!, P-JU n° 12403 [P00671970]!).

Notes. – FRYXELL (1969) cited the material in Ventenat's herbarium as holotype. However, this specimen [G00353087] is a mixed gathering and a second step lectotypification is necessary. A fragment packet contains original material obtained from the plant cultivated in Cels's garden and from the Museum in Paris ("Mus. Nat."). On the same sheet is represented the material from St. Thomas collected by Riedlé. We designate the latter as the lectotype. Four more collections are all original material from Riedlé (or in Baudin herbarium as leg. Riedlé, see above) and considered as isolectotypes.

A specimen annotated in Ventenat's hand "Redoutea heterophylla Hort. Cels pl. XI" and in D. F. K. v. Schlechtendal's hand "Ventenat. W[ilddenow]" (B-W n° 12834) is also available for the interpretation of this name.

69. *Robinia viscosa* Vent., Descr. Pl. Nouv.: tab. 4. 1800.

Lectotypus (designated here): **[UNITED STATES]**: Hort. Cels, *Ventenat s.n.* (G [G00341607]!; isolecto-: P-JU n° 15222 [P00667174]!).



Fig. 11. – Mixed gathering on the single sheet of *Polygonum polygamum* Vent. at G [see under n° 63 for further explanations].

Notes. – Two gatherings are present in Ventenat's herbarium: the collection from Michaux and a cultivated specimen from Cels's garden. We designate the cultivated specimen as the lectotype because it is a more complete collection with a complete inflorescence. An isoelectotype from Cels's garden has been located in P-JU. Michaux's collection from South Carolina ("Caroline méridionale") is considered as an element of original material (G [G00341606], G-DC [G00478142], P [P02924476], P-MICH [P00667178]).

70. *Rosa kamtchatica* Vent., Descr. Pl. Nouv.: tab. 67. 1802.

Lectotypus (designated here): [RUSSIA]: Hort. Cels, *Ventenat s.n.* (G [G00341465]!; isolecto-: G [G00341452]!).

Notes. – Two specimens of a single gathering have been located in Ventenat's herbarium at G. They represent the plant cultivated in Cels's garden. The more complete collection is designated here as the lectotype.

71. *Salvia acuminata* Vent., Descr. Pl. Nouv.: tab. 50. 1801 [nom. illeg.] [non *S. acuminata* Ruiz & Pav.].

Lectotypus (designated here): UNITED STATES. South Carolina: Michaux *s.n.* (G [G00341608]!; isolecto-: P-JU n°5261 [P00657979]).

= *Salvia azurea* Michx. ex Vahl

Notes. – Two gatherings are present in Ventenat's herbarium. The Michaux collection from Carolina and a cultivated specimen from Cels's garden [G00341573]. We designate the Michaux collection as the lectotype because it better represent the morphology of the plant in the wild.

72. *Salvia compressa* Vent., Descr. Pl. Nouv.: tab. 59. 1801.

Lectotypus (designated here): [IRAQ]: Hort. Cels, *Ventenat s.n.* (G [G00341501]!; isolecto-: C [C10013209]!).

Notes. – The name *Salvia compressa* was validated in *Descriptions* in 1801 based on a specimen cultivated in Cels's garden originating from a Bruguière and Olivier collection from Iraq (between Mosul and Baghdad). The only specimen in Ventenat's herbarium from Cels's garden is designated as the lectotype with a duplicate in C. Four specimens collected between Mosul and Baghdad by Bruguière and Olivier have been located in G-BOIS [G00330751] and P [P02888639, P02888640, P02888641]. They are here considered as elements of original material. HEDGE (1982: 426) in his revision for *Fl. Iranica* did not specify the herbarium where the type specimen has been deposited; this cannot be considered as an implicit lectotypification.

73. *Sideritis pullulans* Vent., Descr. Pl. Nouv.: tab. 98. 1803.

Lectotypus (designated here): SYRIA: *sine loc.*, Bruguière & Olivier *s.n.* (G [G00341497]!).

Notes. – Two gatherings are present in Ventenat's herbarium. A sterile cultivated specimen from Cels's garden [G00341642] and the specimen from Syria collected by Bruguière and Olivier. The latter is a flowering specimen and designated as the lectotype. No specimen has been located in P.

74. *Solenandria cordifolia* P. Beauv. ex Vent., Jard. Malmaison 2: tab. 69. 1804.

Lectotypus (designated here): UNITED STATES: "Caroline", Palisot de Beauvois *s.n.* (G [G00341549]!; isolecto-: G [G00341547, G00341548]!).

= *Galax urceolata* (Poir.) Brummitt

Notes. – Three specimens of a single gathering collected by Ambroise Marie François Joseph Palisot de Beauvois (1752-1820) have been located in Ventenat's herbarium at G. The more complete collection is here designated as the lectotype.

75. *Spartium parviflorum* Vent., Descr. Pl. Nouv.: tab. 87. 1802.

Lectotypus (designated here): [TURKEY]: Hort. Cels, *Ventenat s.n.* (G [G00341544]!; isolecto-: G [G00341537]!).

= *Gonocytisus angulatus* (L.) Spach

Notes. – The name *Spartium parviflorum* was validated in *Descriptions* in 1802. It is based on a specimen cultivated in Cels's garden originating from a Bruguière and Olivier collection from Turkey (Mundania). Two specimens in Ventenat's herbarium from Cels's garden have been located and the more complete collection [G00341544] is here designated as the lectotype. Five specimens collected in Turkey by Bruguière and Olivier have been located in G-BOIS [G00341543], G-DC [G00477269] and P [P02953058, P02953060, P02953062]. These are all considered as elements of original material.

76. *Spathodea corymbosa* Vent. in Mém. Cl. Sci. Math. Inst. Natl. France 8: 19. 1807 [cited in Choix Pl.: tab. 40. 1807].

= *Bignonia corymbosa* (Vent.) L.G. Lohmann

Typus: TRINIDAD: *sine loc.*, Riedlé *s.n.* (holo-: P [P00481551]!) (Fig. 12).

Notes. – No collection of this species has been found at G. A collection at P clearly comes from the Ventenat herbarium. It is the only example we have found of a Ventenat label at P. It is designated here as the holotype (Fig. 12). This collection may have been in the herbarium of one of Ventenat's contemporaries when



Fig. 12. – Holotype of *Spathodea corymbosa* Vent. in P. This sheet is the only one found outside G with a label typical of Ventenat.
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his own herbarium has been sold to Delessert (see introduction). Both LOHMANN (2008) and LOHMANN & TAYLOR (2012) also considered this Riedlé collection as holotype.

77. *Statice fasciculata* Vent., Descr. Pl. Nouv.: tab. 38. 1801.

Lectotypus (designated here): [FRANCE. Corsica]: Hort. Cels, *Ventenat s.n.* (G [G00341427]!).

= *Armeria pungens* (Link) Hoffmanns. & Link

Notes. – The name *Statice fasciculata* was validated on the basis of a collection brought back from Corsica by La Billardière and cultivated in Cels's garden. After the latin diagnosis, Ventenat cited two collections from Herb. Vaillant. On the only sheet at G, the text of one of these collections is copied and placed near the fragment packet. We believe that Ventenat had probably obtained from P a clastotype of P05406334 and we therefore consider the collection at G as a mixed gathering. We designate the cultivated specimen from Cels's garden as the lectotype. The La Billardière collections present in Webb's herbarium at FI-W [FI016966, FI016967] are considered as elements of original material as also the two collections in P [P05406334] and P-TRF [P00666376] (Fig. 13) respectively.

78. *Sterculia grandiflora* Vent., Jard. Malmaison 2: sub tab. 91. 1805.

Lectotypus (designated here): MAURITIUS: *sine loc.*, Commerson *s.n.* (P-JU n° 12446 [P00667176]!; isolecto- G [G00015287]!).

= *Cola acuminata* (P. Beauv.) Schott & Endl.

Notes. – After a short latin diagnosis, Ventenat stated in *Jardin de Malmaison* 2: sub tab. 91: “ex Herbario D. de Jussieu, ex Herbarium D. de Lamarck”. One specimen has been found at G and this collection is a clastotype of a collection by Philibert Commerson (1727-1773) from Mauritius where the plant is cultivated. We designate the collection in P-JU as the lectotype as it is more complete and has been used by Ventenat for the description of this species. The two collections in P-LA [P00287711, P00287712] are considered as elements of original material.

79. *Sterculia monosperma* Vent., Jard. Malmaison 2: tab. 91. 1805.

Lectotypus (first step designated by TANTRA, 1976: 154; second step designated here): [CHINA]: cultivated in India [more probably in Indonesia], Anon. *s.n.* (G [G00341673]!).

Notes. – TANTRA (1976: 154) designated a collection in “Herb. de Ventenat” at G as the type with no more information. This cannot be accepted as an implicit lectotypification

since two gatherings exists at G in Ventenat's herbarium: the collection cultivated in Cels's garden and a collection probably from Indonesia. The origin of the collection that Ventenat received is doubtful. *Sterculia monosperma* is endemic to China, the Malay Peninsula and Java (TANTRA, 1976). Ventenat coined the name *S. monosperma* because his specimen possessed a single seeded fruit. The fruiting collection of doubtful origin at G [G00341673] is therefore designated here as the lectotype. The cultivated collection in flower from Cels's garden [G00358626] is considered as an element of original material.

80. *Sterculia rubiginosa* Vent., Jard. Malmaison 2: sub tab. 91. 1805.

Lectotypus (designated here): INDONESIA. Java: *sine loc.*, Commerson *s.n.* (P-JU n° 12445 [P00667180]!; isolecto-: P [P06702127]!).

Notes. – Ventenat in *Jardin de Malmaison* (1805: sub tab. 91) noted: “Java. Ex. Herbar. D.D. de Jussieu et Thouin”. In his revision of the genus *Sterculia* L. in Malesia, TANTRA (1976) implicitly designated the lectotype at P, i.e. *Thouin 462*, that he had not seen [by mentioning n.v.], with a duplicate at LINN. The Smith herbarium at LINN contains several collection of the Thouin herbarium (STEARN, 1988). It is not clear if these two collections given by TANTRA (1976) as type material are duplicates of the same gathering. The Thouin herbarium contains several of Commerson's collections but we prefer to designate the P-JU collection with a duplicate in the general collection in P as the lectotype. No collection has been found at G.

81. *Styphelia gnidium* Vent., Jard. Malmaison 1: tab. 23. 1803.

Lectotypus (designated here): [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* (P-JU n° 7364+C [P00667208]!).

= *Leucopogon parviflorus* (Andrews) Lindl.

Notes. – The only collection found in Ventenat's herbarium seems to represent two gatherings from Botany Bay in Australia. Only the specimen on the right-hand of G [G00341499] seems to match the morphology of the species. A more trustful collection has been located in P-JU. It is a cultivated specimen from Malmaison given by Ventenat to Jussieu in 1805. We designate the latter collection as the lectotype.

82. *Tournefortia laurifolia* Vent., Choix Pl.: tab. 2. 1803.

Lectotypus (designated here): UNITED STATES. Puerto Rico: *sine loc.*, Riedlé *s.n.* (P [P00607005]!; isolecto-: P [P00607006, P00607007, P00607008]!).

= *Tournefortia maculata* Jacq.



Fig. 13. – Original material of *Statice fasciculata* Vent. from the Tournefort herbarium in Paris at P-TRF.
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Notes. – No specimen was located in Ventenat's herbarium. Several duplicates of the original collections of Riedlé from Puerto Rico have been found at P. The collection [P00607005] is designated here as the lectotype as it clearly served for tab. 2 published in *Choix* in 1803.

83. *Tradescantia rosea* Vent., Descr. Pl. Nouv.: tab. 24. 1801.

= *Callisia rosea* (Vent.) D.R. Hunt

Typus: UNITED STATES: “Caroline et Floride”, *Michaux s.n.* (holo-: G [G00341445]!; iso-: P [P02173797]!, P-MICH [P00667162]!).

Notes. – A single collection has been located in Ventenat's herbarium. This collection is wrongly labelled “Beauvois” standing for Ambroise Marie François Joseph Palisot de Beauvois (1752-1820). However, Ventenat in *Descriptions* (1801: tab. 24) referred to material collected by Michaux “dans la Basse-Caroline et dans la Géorgie” that was cultivated in Cels's garden. Two duplicates of the specimen collected in the wild have been found in Paris in P and in P-MICH respectively. Cultivated material kept in MPU (Herb. Thibaud) and P (Herb. Bonpland) labelled as “Hort. Cels” and “Hort. Malmaison” respectively have probably been collected after the validation of the name *T. rosea* in 1801 and should therefore not be considered as original material.

84. *Turpinia paniculata* Vent. in Mém. Cl. Sci. Math. Inst. Natl. France 8: 6. 1807 [cited in *Choix* Pl.: tab. 31. 1807].

Lectotypus (designated here): DOMINICAN REPUBLIC / HAITI: “St. Domingo”, *Poiteau s.n.* (G [G00341609]!; isolecto-: G [G00341668, G00341670, G00341678]!, G-DC [G00458760]!, P-JU n° 16024 [P00678736]!).

= *Turpinia occidentalis* (Sw.) G. Don

Notes. – Several specimens of a single gathering have been located. A fragment of the *Poiteau s.n.* collection is in G-DC with the mention “M. B. Delessert 1816” and is here considered to have been previously part of Ventenat's herbarium (see introduction). The single collection in Ventenat's herbarium is designated here as the lectotype.

85. *Verbena stricta* Vent., Descr. Pl. Nouv.: tab. 53. 1801.

Lectotypus (designated here): UNITED STATES. Illinois: *Michaux s.n.* (G [G00341491]!; isolecto-: G [G00341489]!, P [P00307087, P00650837]!, P-MICH [P00307085]!).

Notes. – The name *Verbena stricta* has been validated on the basis of a Michaux collection from Illinois cultivated in Cels's garden. Material collected by Michaux exists in Ventenat's

herbarium and cultivated material from the garden of Cels is extant in G-DC [G00657716]. We designate here the Michaux collection at G as the lectotype as it is in a better state of conservation and represented by two duplicates in P and one in P-MICH respectively. The latter specimen is also the holotype of the illeg. name *Verbena rigens* Michx. O'LEARY et al. (2010) give as type for *V. rigens* a specimen *sine coll.* in P that they have not seen; their typification cannot be accepted.

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Appendix I. – Generic names cited by Ventenat between 1800 and 1808 in *Descriptions*, *Choix* and *Jardin de Malmaison* including their current status (see p. 95).

Genus	Family	Reference	Current status
<i>Bossiaea</i> Vent.	Leguminosae	Descr. Pl. Nouv.: tab. 7. 1800	accepted [nom. cons.]
<i>Caladium</i> Vent.	Araceae	Descr. Pl. Nouv.: tab. 30. 1801	accepted [nom. cons.]
<i>Calomeria</i> Vent.	Asteraceae	Jard. Malmaison 2: tab. 73. 1804	accepted
<i>Chaptalia</i> Vent.	Asteraceae	Descr. Pl. Nouv.: tab. 61. 1802	accepted [nom. cons.]
<i>Corydalis</i> Vent.	Papaveraceae	Choix Pl.: tab. 19. 1803	nom. rejic. against <i>Corydalis</i> DC.
<i>Gothofreda</i> Vent.	Apocynaceae	Choix Pl.: tab. 60. 1808	nom. rejic. against <i>Oxypetalum</i> R. Br.
<i>Nemesia</i> Vent.	Scrophulariaceae	Jard. Malmaison 1: tab. 41. 1804	accepted
<i>Notelaea</i> Vent.	Oleaceae	Choix Pl.: tab. 25. 1804	accepted
<i>Nyctarium</i> Vent.	Solanaceae	Jard. Malmaison 2: tab. 85. 1805	accepted, syn. of <i>Solanum</i> L.
<i>Oliveria</i> Vent.	Apiaceae	Descr. Pl. Nouv.: tab. 21. 1801	accepted
<i>Phebalium</i> Vent.	Rutaceae	Jard. Malmaison 2: tab. 102. 1805	accepted
<i>Poiretia</i> Vent.	Leguminosae	Choix Pl.: tab. 42. 1807	accepted [nom. cons.]
<i>Poitea</i> Vent.	Leguminosae	Choix Pl.: tab. 36. 1807	accepted
<i>Pongamia</i> Vent.	Leguminosae	Jard. Malmaison 1: tab. 28. 1803	nom. rejic. against <i>Milletia</i> Wight & Arn.
<i>Redoutea</i> Vent.	Malvaceae	Descr. Pl. Nouv.: tab. 11. 1800	accepted
<i>Riedlea</i> Vent.	Malvaceae	Choix Pl.: tab. 37. 1807	[nom. illeg.] [non <i>Riedlea</i> Mirb.]
<i>Turpinia</i> Vent.	Staphyleaceae	Choix Pl.: tab. 31. 1807	accepted [nom. cons.]
<i>Villarsia</i> Vent.	Menyanthaceae	Choix Pl.: tab. 9. 1803	accepted [nom. cons.]

Appendix II. – Exhaustive list of the 343 names dealt with in Ventenat's three flower books: *Descriptions*, *Choix* and *Jardin de Malmaison*. Bold numbers in brackets refer to the "lectotypifications and notes" section; regions in bold and small capitals are the one used in Fig. 7 (see p. 95, 105); if typification is based on a cultivated specimen, geographical origin is indicated in square brackets. Abbreviations: HT: holotype; LT: lectotype; ILT: isolectotype; NT: neotype; OM: original material.

- Achillea asplenifolia* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 95. 1803. **NORTH AMERICA**: LT: G; OM: G (1). = *Achillea millefolium* L.
- Achillea imbricata* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 54. 1801. **WESTERN ASIA**: Orient, *Bruguère & Olivier s.n.* HT: G [G00341438]. = *Achillea membranacea* (Labill.) DC.
- Agyneia impubes* L. (*Euphorbiaceae*), Descr. Pl. Nouv.: tab. 23. 1801. **CHINA**. = *Glochidion puberum* (L.) Hutch.
- Allium fragrans* Vent. (*Amaryllidaceae*), Descr. Pl. Nouv.: tab. 26. 1801. [**NORTH AFRICA**]: "envoyé de Montpellier", *Ventenat s.n.* HT: G [G00341468]. = *Nothoscordum gracile* (Aiton) Stearn
- Alyssum mutabile* Vent. (*Brassicaceae*), Descr. Pl. Nouv.: tab. 85. 1802. [**WESTERN ASIA**]: Hort. Cels, *Ventenat s.n.* LT: G; ILT: G (2). = *Berteroa mutabilis* (Vent.) DC.
- Amsonia angustifolia* (Aiton) Michx. (*Apocynaceae*), Choix Pl.: tab. 29. 1804. **NORTH AMERICA**. = *Amsonia ciliata* Walter
- Anagallis fruticosa* Vent. (*Primulaceae*), Choix Pl.: tab. 14. 1803. **NORTH AFRICA**: LT: G; ILT: B-W, G-DC; OM: G-DC (3). = *Anagallis monelli* L.
- Ananema coriacea* Vent. (*Ranunculaceae*), Jard. Malmaison 1: tab. 22. 1803. [**SOUTH AFRICA**]: LT (designated by RASMUSSEN, 1979: 27): P-JU; ILT: G, G-DC (4). = *Anemone versicatoria* (L. f.) Prantl.
- Ananema gracilis* Vent. (*Ranunculaceae*), Jard. Malmaison 1: sub tab. 22. 1803. **SOUTH AFRICA**: Cape, *Thunberg s.n.* LT (designated by RASMUSSEN, 1979: 16): P-JU n° 10575 [P00667196]. = *Anemone knowltonia* Burt Davy
- Ancistrum repens* Vent. (*Rosaceae*), Descr. Pl. Nouv.: tab. 6. 1800. [**SOUTH AFRICA**]: LT: G; OM: G, P-JU (5). = *Acaena ovalifolia* Ruiz & Pav.
- Andreusia debilis* (Andrews) Vent. (*Myoporaceae*), Jard. Malmaison 2: sub tab. 108. 1805. **AUSTRALIA**. = *Eremophila debilis* (Andrews) Chinnock
- Andreusia glabra* (Andrews) Vent. (*Myoporaceae*), Jard. Malmaison 2: sub tab. 108. 1805. **AUSTRALIA**. = *Myoporum boninense* subsp. *australe* Chinnock
- Andromeda anastomosans* Mutis ex L.f. (*Ericaceae*), Choix Pl.: tab. 53. 1808. **CENTRAL AMERICA**. = *Gaultheria anastomosans* (Mutis ex L. f.) Kunth
- Andromeda calyculata* var. *anomala* Vent. (*Ericaceae*), Jard. Malmaison 2: sub tab. 80. 1804. [**NORTH AMERICA**]: Hort. Cels, *Ventenat s.n.* HT: G [G00341523]. = *Chamaedaphne calyculata* (L.) Moench
- Andromeda cassinefolia* Vent. (*Ericaceae*), Descr. Pl. Nouv.: tab. 60. 1802. [**NORTH AMERICA**]: LT: G; OM: G (6). = *Zenobia pulverulenta* (W. Bartram ex Willd.) Pollard
- Andromeda cassinefolia* var. *nuda* Vent. (*Ericaceae*), Jard. Malmaison 2: sub tab. 79. 1804 [nom. inval.]. **NORTH AMERICA**. = *Zenobia pulverulenta* (W. Bartram ex Willd.) Pollard
- Andromeda cassinefolia* var. *pulverulenta* Vent. (*Ericaceae*), Jard. Malmaison 2: sub tab. 79. 1804 [nom. inval.]. **NORTH AMERICA**. = *Zenobia pulverulenta* (W. Bartram ex Willd.) Pollard
- Andromeda ferruginea* Walter (*Ericaceae*), Jard. Malmaison 2: sub tab. 80. 1804. **NORTH AMERICA**. = *Lyonia ferruginea* (Walter) Nutt.
- Andropogon schoenanthus* L. (*Poaceae*), Descr. Pl. Nouv.: tab. 89. 1802. **INDIA**. = *Cymbopogon schoenanthus* (L.) Spreng.
- Antirrhinum bipartitum* Vent. (*Plantaginaceae*), Descr. Pl. Nouv.: tab. 82. 1802. [**NORTH AFRICA**]: LT (first step designated by VIANO, 1978: 79; second step designated here): G; ILT: G; OM: G-DC (7). = *Linaria incarnata* (Vent.) Spreng.
- Antirrhinum canadense* L. (*Plantaginaceae*), Descr. Pl. Nouv.: tab. 49. 1801. **NORTH AMERICA**. = *Nuttallanthus canadensis* (L.) D.A. Sutton
- Antirrhinum triornithophorum* L. (*Plantaginaceae*), Jard. Malmaison 1: tab. 11. 1803. **NORTH AMERICA**. = *Linaria triornithophora* (L.) Cav.
- Apium prostratum* Labill. ex Vent. (*Apiaceae*), Jard. Malmaison 2: tab. 81. 1804. [**AUSTRALIA**]: LT: G; ILT: G-DC (8).
- Aralia hispida* Vent. (*Araliaceae*), Descr. Pl. Nouv.: tab. 41. 1801. **NORTH AMERICA**: Illinois, *Michaux s.n.* HT: G [G00236894]; IT: P-MICH [P00667164, P00667167, P00667170].
- Ardisia crenulata* Vent. (*Myrsinaceae*), Choix Pl.: tab. 5. 1803. **WEST INDIES**: HT: G; IT: G, P-JU (9). = *Parathesis crenulata* (Vent.) Hook. f. ex Hemsl.
- Arenaria montana* L. (*Caryophyllaceae*), Descr. Pl. Nouv.: tab. 34. 1801. **EUROPA**.
- Ascyrum stans* Michx. ex Willd. (*Hypericaceae*), Jard. Malmaison 2: tab. 90. 1805. **NORTH AMERICA**.
- Asperula brevifolia* Vent. (*Rubiaceae*), Descr. Pl. Nouv.: tab. 63. 1802. [**WESTERN ASIA**]: Hort. Cels, *Ventenat s.n.* HT: G [G00341455].
- Aster filifolius* Vent. (*Asteraceae*), Jard. Malmaison 2: tab. 82. 1804. [**SOUTH AFRICA**]: *Ventenat s.n.* HT: G [G00341483]. = *Felicia filifolia* (Vent.) Burt Davy
- Aster microphyllus* Vent. (*Asteraceae*), Jard. Malmaison 2: sub tab. 82. 1804. **AUSTRALIA**: L. *Ventenat s.n.* HT: G [G00301085]. = *Olearia microphylla* (Vent.) Maiden & Betche
- Aster sericeus* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 33. 1801. [**NORTH AMERICA**]: Hort. Cels, *Ventenat s.n.* HT: G [G00341481]. = *Symphotrichum sericeum* (Vent.) G.L. Nesom
- Banisteria parvifolia* Vent. (*Malpighiaceae*), Choix Pl.: tab. 51. 1808. **WEST INDIES**: St. Thomas, *Riedlé s.n.* HT: G [G00352869]. = *Heteropterys purpurea* (L.) Kunth
- Banisteria tiliifolia* Vent. (*Malpighiaceae*), Choix Pl.: tab. 50. 1808. **INDONESIA**: Java, *Labaye s.n.* HT: G [G00352955]. = *Stigmaphyllon albidum* (Blume) C.E. Anderson
- Bauera rubioides* Andrews (*Cunoniaceae*), Jard. Malmaison 2: sub tab. 96. 1805. **AUSTRALIA**.
- Bejaria racemosa* Vent. (*Ericaceae*), Descr. Pl. Nouv.: tab. 51. 1801. **NORTH AMERICA**: LT (designated by CLEMANTS, 1995: 71): G; ILT: G, P, P-MICH; OM: G-DC (10).
- Bejaria resinosa* Mutis ex L. f. (*Ericaceae*), Choix Pl.: tab. 52. 1808. **SOUTH AFRICA**.
- Bignonia pandorea* Vent. (*Bignoniaceae*), Jard. Malmaison 1: tab. 43. 1804 [nom. inval.]. **NORFOLK ISLAND**. = *Pandorea pandorana* (Andrews) Steenis
- Blackwellia cerasifolia* Vent. (*Salicaceae*), Choix Pl.: tab. 56. 1808. **MADAGASCAR**: Commerson s.n. HT: G [G00364811]; IT: P [P00346105], P-JU n° 14405 [P00667194]. = *Calantica cerasifolia* (Vent.) Tul.
- Blackwellia glauca* Vent. (*Salicaceae*), Choix Pl.: tab. 55. 1808. **MASCARENE ISLANDS**: Mauritius, Commerson s.n. LT (designated by SLEUMER & BOSSER 1980: 10): G [G00364329]; OM: P-JU n° 14409 [P00667195]. = *Homalium integrifolium* (Lam.) Baill.
- Blackwellia tomentosa* Vent. (*Salicaceae*), Choix Pl.: tab. 57. 1808. **INDONESIA**: Java, *Labaye s.n.* HT: G [G00364374]. = *Homalium tomentosum* (Vent.) Benth.
- Borago crassifolia* Vent. (*Boraginaceae*), Descr. Pl. Nouv.: tab. 100. 1803. [**WESTERN ASIA**]: Hort. Cels, *Ventenat s.n.* HT: G [G00341533]. = *Caccinia macranthera* var. *crassifolia* (Vent.) C. Koch

- Boronia pinnata* Sm. (*Rutaceae*), Jard. Malmaison 1: tab. 38. 1804. AUSTRALIA.
- Bossiaea heterophylla* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 7. 1800. [AUSTRALIA]: Hort. Cels, Ventenat s.n. HT: G [G00341556].
- Bumelia reclinata* (Michx.) Vent. (*Sapotaceae*), Choix Pl.: tab. 22. 1803. NORTH AMERICA. = *Sideroxylon reclinatum* Michx.
- Bumias spinosa* L. (*Brassicaceae*), Jard. Malmaison 1: tab. 16. 1803. NORTH AFRICA. = *Zilla spinosa* (L.) Prantl.
- Bupthalmum fuscolum* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 25. 1801. WESTERN ASIA: LT (designated by ANDERBERG 1982: 301): G [G00222326]; OM: G-BOIS [G00330747], G-DC [G00468533], P [P02274995, P02274996]. = *Anvillea garcinii* (Burm. f.) DC.
- Caladium arborescens* (L.) Vent. (*Araceae*) in Mag. Encycl. 4: 471. 1801 [cited in Descr. Pl. Nouv.: sub tab. 30. 1801]. SOUTH AMERICA. = *Montrichardia arborescens* (L.) Schott
- Caladium auritum* (L.) Vent. (*Araceae*) in Mag. Encycl. 4: 472. 1801 [cited in Descr. Pl. Nouv.: sub tab. 30. 1801]. WEST INDIES. = *Syngonium auritum* (L.) Schott
- Caladium bicolor* (Aiton) Vent. (*Araceae*) in Mag. Encycl. 4: 464. 1801 [cited in Descr. Pl. Nouv.: tab. 30. 1801]. SOUTH AMERICA.
- Caladium esculentum* (L.) Vent. (*Araceae*) in Mag. Encycl. 4: 471. 1801 [cited in Descr. Pl. Nouv.: sub tab. 30. 1801]. WEST INDIES. = *Colocasia esculenta* (L.) Schott
- Caladium belleborifolium* (Jacq.) Vent. (*Araceae*) in Mag. Encycl. 4: 471. 1801 [cited in Descr. Pl. Nouv.: sub tab. 30. 1801]. SOUTH AMERICA. = *Xanthosoma belleborifolium* (Jacq.) Schott
- Caladium nymphaeifolium* Vent. (*Araceae*) in Mag. Encycl. 4: 471. 1801 [cited in Descr. Pl. Nouv.: sub tab. 30. 1801]. [INDONESIA]: LT: (Rheede, Hort. Malab. 9: tab. 22. 1689) (11). = *Colocasia esculenta* (L.) Schott
- Caladium ovatum* (L.) Vent. (*Araceae*) in Mag. Encycl. 4: 471. 1801 [cited in Descr. Pl. Nouv.: sub tab. 30. 1801]. INDIA. = *Lagenandra ovata* (L.) Thwaites
- Caladium seguinum* (Jacq.) Vent. (*Araceae*) in Mag. Encycl. 4: 471. 1801 [cited in Descr. Pl. Nouv.: sub tab. 30. 1801]. WEST INDIES. = *Dieffenbachia seguine* (Jacq.) Schott
- Calendula chrysanthemifolia* Vent. (*Asteraceae*), Jard. Malmaison 1: tab. 56. 1804. [SOUTH AFRICA]: LT: G; ILT: G (12). = *Dimorphotheca chrysanthemifolia* (Vent.) DC.
- Calendula flaccida* Vent. (*Asteraceae*), Jard. Malmaison 1: tab. 20. 1803. [SOUTH AFRICA]: Hort. Malmaison, Ventenat s.n. HT: G [G00341492]. = *Dimorphotheca tragus* (Aiton) B. Nord.
- Callistachys elliptica* Vent. (*Leguminosae*), Jard. Malmaison 2: sub tab. 115. 1805. [AUSTRALIA]: Hort. Malmaison, Ventenat s.n. HT: G [G00370535]. = *Oxylobium ellipticum* (Vent.) R. Br.
- Callistachys lanceolata* Vent. (*Leguminosae*), Jard. Malmaison 2: tab. 115. 1805. [AUSTRALIA]: Hort. Malmaison, Ventenat s.n. HT: G [G00370528]. = *Oxylobium lanceolatum* (Vent.) Druce
- Calomeria amarantoides* Vent. (*Asteraceae*), Jard. Malmaison 2: tab. 73. 1804. [AUSTRALIA]: Hort. Malmaison, Ventenat s.n. HT: G [G00341475]; IT: P-JU n° 9211 [P006667165].
- Campanula aurea* L. f. (*Campanulaceae*), Jard. Malmaison 2: tab. 116. 1805. MADEIRA. = *Musschia aurea* (L. f.) Dumort
- Campanula tomentosa* Vent. (*Campanulaceae*), Descr. Pl. Nouv.: tab. 18. 1800 [nom. illeg.] [non *C. tomentosa* Lam.]. [JAPAN]: Hort. Cels, Ventenat s.n. HT: G [G00236832]; IT: P-JU n° 7650 [P00667161]. = *Campanula celsii* A. DC.
- Campanula vinciflora* Vent. (*Campanulaceae*), Jard. Malmaison 1: tab. 12. 1803 [nom. inval.]. NEW ZEALAND. = *Wahlenbergia gracilis* (G. Forst.) A. DC.
- Casearia comocladifolia* Vent. (*Salicaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 151. 1808 [cited in Choix Pl.: sub tab. 44. 1808]. WEST INDIES: Dominican Republic / Haiti, Turpin & Poiteau s.n. LT (designated by SLEUMER 1980: 292): P-JU n° 16207 [P00678804]; ILT: G [G00364174]. = *Casearia coriacea* Vent.
- Casearia coriacea* Vent. (*Salicaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 151. 1808 [cited in Choix Pl.: tab. 45. 1808]. MASCARENE ISLANDS: Mauritius: Labaye s.n. HT: G [G00355987] (see SLEUMER 1980: 21).
- Casearia fragilis* Vent. (*Salicaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 153. 1808 [cited in Choix Pl.: sub tab. 47. 1808]. MASCARENE ISLANDS: Reunion Island, Commerson s.n. HT: G [G00364737]; IT: P-JU n° 16219 [P00678837]. = *Casearia coriacea* Vent.
- Casearia grewiaefolia* Vent. (*Salicaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 154. 1808 [cited in Choix Pl.: sub tab. 47. 1808]. INDONESIA: Java, Labaye s.n. HT: G [G00364738].
- Casearia ilicifolia* Vent. (*Salicaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 150. 1808 [cited in Choix Pl.: tab. 44. 1808]. WEST INDIES: Dominican Republic / Haiti, Turpin s.n. HT: G [G00364382].
- Casearia stipularis* Vent. (*Salicaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 152. 1808 [cited in Choix Pl.: tab. 46. 1808] [nom. inval.]. WEST INDIES. = *Casearia arborea* (Rich.) Urb.
- Casearia tinifolia* Vent. (*Salicaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 154. 1808 [cited in Choix Pl.: tab. 47. 1808]. MASCARENE ISLANDS: Mauritius, Labaye s.n. HT: G [G00165542] (see SLEUMER 1980: 19).
- Casearia ulmifolia* Vahl ex Vent. (*Salicaceae*), Choix Pl.: sub tab. 46. 1808. WEST INDIES: LT (first step designated by SLEUMER, 1980: 324; second step designated here): C; ILT: BM, BR, C, G, L, P-JU (13).
- Cassine xylocarpa* Vent. (*Celastraceae*), Choix Pl.: tab. 23. 1803. [WEST INDIES]: LT (designated by DAVIDSE, 2015: 214): G [G00341512]; OM: G [G00341513].
- Castilleja coronopifolia* Vent. (*Scrophulariaceae*), Choix Pl.: tab. 59. 1808. SOUTH AMERICA: Santa Fe de Bogota, Umana s.n. HT: G [G00341529]. = *Castilleja fissifolia* L. f.
- Casuarina distyla* Vent. (*Casuarinaceae*), Descr. Pl. Nouv.: tab. 62. 1802. [AUSTRALIA]: HT: G; IT: NSW (14). = *Allocasuarina distyla* (Vent.) L.A.S. Johnson
- Ceanothus discolor* Vent. (*Rhamnaceae*), Jard. Malmaison 1: tab. 58. 1804. [AUSTRALIA]: Hort. Cels, Ventenat s.n. HT: G [G00440927]. = *Pomaderris discolor* (Vent.) Poir.
- Celsia lanceolata* Vent. (*Scrophulariaceae*), Descr. Pl. Nouv.: tab. 27. 1801. [WESTERN ASIA]: LT: G; ILT: G-BOIS; OM: G-BOIS, P (15). = *Verbascum assureuse* Bornm. & Hand.-Mazz.
- Centaurea alata* Lam. (*Asteraceae*), Descr. Pl. Nouv.: tab. 80. 1802. WESTERN ASIA. = *Centaurea beben* L.
- Centaurea prolifera* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 16. 1800. [NORTH AFRICA]: Hort. Cels, Ventenat s.n. HT: G [G00341490]. = *Centaurea glomerata* Vahl
- Centaurea pumila* L. (*Asteraceae*), Jard. Malmaison 1: tab. 9. 1803. NORTH AFRICA.
- Cestrum macrophyllum* Vent. (*Solanaceae*), Choix Pl.: tab. 18. 1803. WEST INDIES. Porto Rico: Riedlé s.n. HT: G [G00169748]; IT: P-JU n° 6460 [P00671368].
- Chaptalia tomentosa* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 61. 1802. NORTH AMERICA: Caroline, Bosc s.n. HT: G [G00341473]; IT: G-DC [G00499760], P-LAM [P00342940].
- Cheiranthus linearis* Vent. (*Brassicaceae*), Jard. Malmaison 2: sub tab. 83. 1804 [nom. illeg.] [non *C. linearis* Forssk.]. CANARY ISLANDS: LT: G; OM: G, G-DC (16). = *Erysimum semperflorens* (Schousb.) Wettst.
- Cheiranthus longifolius* Vent. (*Brassicaceae*), Jard. Malmaison 2: tab. 83. 1804. [CANARY ISLANDS]: LT: G; ILT: G-DC; OM: G, G-DC (17). = *Erysimum heritieri* Kuntze
- Cheiranthus longipetalus* Vent. (*Brassicaceae*), Descr. Pl. Nouv.: tab. 93. 1803. [WESTERN ASIA]: Hort. Cels, Ventenat s.n. HT: G [G00371849]. = *Matthiola longipetala* (Vent.) DC.

- Chironia decussata* Vent. (*Gentianaceae*), Descr. Pl. Nouv.: tab. 31. 1801. [SOUTH AFRICA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341507]. = *Orpbium frutescens* (L.) E. Mey.
- Chrysanthemum praecaltum* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 43. 1801. WESTERN ASIA: LT: G; ILT: G; OM: G-DC (18). = *Tanacetum partbenium* (L.) Sch. Bip.
- Cineraria cruenta* Masson ex L'Hér. (*Asteraceae*), Jard. Malmaison 2: tab. 99. 1805. CANARY ISLANDS. = *Pericallis cruenta* (Masson ex L'Hér.) Bolle.
- Cineraria hirsuta* Vent. (*Asteraceae*), Jard. Malmaison 2: tab. 95. 1805. [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341482]. = *Felicia cymbalariae* (Aiton) Bolus & Wolley-Dod ex Adamson & T.M. Salter
- Cineraria populifolia* L'Hér. (*Asteraceae*), Jard. Malmaison 2: tab. 100. 1805. CANARY ISLANDS. = *Pericallis appendiculata* (L. f.) B. Nord.
- Cineraria ramentosa* L'Hér. (*Asteraceae*), Jard. Malmaison 2: tab. 101. 1805. CANARY ISLANDS. = *Pericallis echinata* (L. f.) B. Nord.
- Cissus antarctica* Vent. (*Vitaceae*), Choix Pl.: tab. 21. 1803. [AUSTRALIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341435].
- Cistus carolinianus* Walter (*Cistaceae*), Descr. Pl. Nouv.: tab. 74. 1802. NORTH AMERICA. = *Helianthemum carolinianum* (Walter) Michx.
- Citharexylum pentandrum* Vent. (*Verbenaceae*), Descr. Pl. Nouv.: tab. 47. 1801. [WEST INDIES]: Hort. Cels, *Ventenat s.n.* HT: G [G00341486]. = *Citharexylum spinosum* L.
- Clerodendrum viscosum* Vent. (*Lamiaceae*), Jard. Malmaison 1: tab. 25. 1803. [INDONESIA]: LT: G; OM: G (19). = *Clerodendrum infortunatum* L.
- Clethra arborea* Aiton (*Clethraceae*), Jard. Malmaison 1: tab. 40. 1804. MADEIRA.
- Clitoria heterophylla* Lam. (*Leguminosae*), Choix Pl.: tab. 26. 1804. MASCARENE ISLANDS.
- Cneorum pulverulentum* Vent. (*Cneoraceae*), Descr. Pl. Nouv.: tab. 77. 1802. CANARY ISLANDS: Broussonet *s.n.* HT: G [G00236028]; IT: G [G00476956].
- Colletia ephedra* Vent. (*Rhamnaceae*), Descr. Pl. Nouv.: sub tab. 92. 1803. SOUTH AMERICA: LT (first step designated by TORTOSA, 1992: 235; second step designated here): P; ILT: G, G-DC, P, P-JU n° 16153 (20). = *Retanilla ephedra* (Vent.) Brongn.
- Colletia obcordata* Vent. (*Rhamnaceae*), Descr. Pl. Nouv.: tab. 92. 1803. [SOUTH AMERICA]: LT: G; ILT: G, G-DC, P-JU n° 16157 (20). = *Retanilla ephedra* (Vent.) Brongn.
- Colletia serratifolia* Vent. (*Rhamnaceae*), Descr. Pl. Nouv.: sub tab. 92. 1803. SOUTH AMERICA: Peru, *Dombey s.n.* HT: G [G00341566]; IT: P [P01818934, P01818935], P-JU n° 16155 [P00678781]. = *Discaria articulata* (Phil.) Miers
- Combretum aculeatum* Vent. (*Combretaceae*), Choix Pl.: sub tab. 58. 1808. WEST AFRICA: Senegal, *Roussillon s.n.* LT (designated by LIBEN, 1983: 23): P-JU n° 13629 [P00667185]; ILT: G-DC [G00656747], P [P00391705].
- Combretum paniculatum* Vent. (*Combretaceae*), Choix Pl.: sub tab. 58. 1808. WEST AFRICA: Senegal, *Roussillon 60* LT (designated by JONGKIND, 1999: 70): P-JU n° 13632 [P00667191 sheet 1, P00667192 sheet 2]; ILT: G-DC [G00656760].
- Combretum trifoliatum* Vent. (*Combretaceae*), Choix Pl.: tab. 58. 1808. INDONESIA: Java, *Labaye s.n.* HT: G [G00177911]; IT: P-JU n° 13633 [P00667189].
- Conchium aciculare* Sm. ex Vent. (*Proteaceae*), Jard. Malmaison 2: tab. 111. 1805. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00389593]. = *Hakea sericea* Schrad. & J.C. Wendl.
- Conchium dactyloides* (Gaertn.) Vent. (*Proteaceae*), Jard. Malmaison 2: tab. 110. 1805. AUSTRALIA. = *Hakea dactyloides* (Gaertn.) Cav.
- Convolvulus scoparius* L. f. (*Convolvulaceae*), Choix Pl.: tab. 24. 1803. CANARY ISLANDS. = *Rhodorbiza scoparia* (L. f.) Webb & Berthel.
- Correa alba* Andrews (*Rutaceae*), Jard. Malmaison 1: tab. 13. 1803. AUSTRALIA.
- Correa reflexa* (Labill.) Vent. (*Rutaceae*), Jard. Malmaison 1: sub tab. 13. 1803. AUSTRALIA.
- Correa revoluta* Vent. (*Rutaceae*), Jard. Malmaison 1: sub tab. 13. 1803. AUSTRALIA: HT: G; IT: MA (21). = *Correa reflexa* (Labill.) Vent.
- Correa rufa* (Labill.) Vent. (*Rutaceae*), Jard. Malmaison 1: sub tab. 13. 1803. AUSTRALIA. = *Correa reflexa* (Labill.) Vent.
- Corydalis fungosa* (Aiton) Vent. (*Papaveraceae*), Choix Pl.: tab. 19. 1803. NORTH AMERICA. = *Adlumia fungosa* (Aiton) Britton, Sterns & Poggenb.
- Cotyledon crenata* (Andrews) Vent. (*Crassulaceae*), Jard. Malmaison 1: tab. 49. 1804. WEST AFRICA. = *Kalanchoe crenata* (Andrews) Haw.
- Crotalaria purpurea* Vent. (*Leguminosae*), Jard. Malmaison 2: tab. 66. 1804. [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341553]. = *Hypocalyptus coluteoides* (Lam.) R. Dahlgren
- Crotalaria semperflorens* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 17. 1800. [INDONESIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341563]. = *Crotalaria verrucosa* L.
- Croton hircinus* Vent. (*Euphorbiaceae*), Jard. Malmaison 1: tab. 50. 1804. [WEST INDIES]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341569].
- Croton penicillatus* Vent. (*Euphorbiaceae*), Choix Pl.: tab. 12. 1803 [nom. inval.]. EUROPA. = *Croton ciliatoglandulifer* Ortega
- Crowea saligna* Andrews (*Rutaceae*), Jard. Malmaison 1: tab. 7. 1803. AUSTRALIA.
- Curatella alata* Vent. (*Dilleniaceae*), Choix Pl.: tab. 49. 1808. SOUTH AMERICA: Guyana, *Martin s.n.* HT: G [G00237403]; IT: P [P00682188, P00682191, P00682192]. = *Davilla alata* (Vent.) Briq.
- Cytisus proliferus* L. f. (*Leguminosae*), Descr. Pl. Nouv.: tab. 13. 1800. CANARY ISLANDS.
- Dalea purpurea* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 40. 1801. NORTH AMERICA: LT: G; ILT: P, P-MICH; OM: G (22).
- Daviesia denudata* Vent. (*Leguminosae*), Choix Pl.: tab. 6. 1803 [nom. inval.]. AUSTRALIA. = *Viminaria juncea* (Schrad. & J.C. Wendl.) Hoffmanns.
- Dianthus monadelphus* Vent. (*Caryophyllaceae*), Descr. Pl. Nouv.: tab. 39. 1801 [WESTERN ASIA]: LT: (Ventenat, Descr. Pl. Nouv.: tab. 39. 1801) (23).
- Dianthus procumbens* Vent. (*Caryophyllaceae*), Descr. Pl. Nouv.: index 1803 [nom. inval.]. WESTERN ASIA. = *Dianthus monadelphus* Vent.
- Dillenia volubilis* (Andrews) Vent. (*Dilleniaceae*), Choix Pl.: tab. 11. 1803. AUSTRALIA. = *Hibbertia volubilis* Andrews
- Dionaea muscipula* J. Ellis (*Droseraceae*), Jard. Malmaison 1: tab. 29. 1803. NORTH AMERICA.
- Diosma cerefolia* Vent. (*Rutaceae*) Jard. Malmaison 2: tab. 93. 1805. [SOUTH AFRICA]: LT: G; ILT: G-DC (24). = *Agathosma cerefolia* (Vent.) Bartl. & H.L. Wendl.
- Diosma hirta* Lam. (*Rutaceae*), Jard. Malmaison 2: tab. 72. 1804. SOUTH AFRICA. = *Agathosma corymbosa* (C.V. Montin) G. Don.
- Diosma serratifolia* Curtis (*Rutaceae*), Jard. Malmaison 2: tab. 77. 1804. AUSTRALIA. = *Agathosma serratifolia* (Curtis) Spreeth.
- Dracocephalum variegatum* Vent. (*Lamiaceae*), Descr. Pl. Nouv.: tab. 44. 1801 [nom. inval.]. NORTH AMERICA. = *Physostegia virginiana* subsp. *praemorsa* (Shinners) P.D. Cantino
- Echium giganteum* L. f. (*Boraginaceae*), Jard. Malmaison 2: tab. 71. 1804. CANARY ISLANDS.
- Echium grandiflorum* Andrews (*Boraginaceae*), Jard. Malmaison 2: tab. 97. 1805. SOUTH AFRICA. = *Lobostemon regulariflorus* (Ker Gawl.) Buys
- Echium thyrsoideum* Juss. ex Vent. (*Boraginaceae*), Jard. Malmaison 2: sub tab. 97. 1805. EUROPA: LT: P-JU (25). = *Echium maculatum* L.
- Elaeodendron australe* Vent. (*Celastraceae*), Jard. Malmaison 2: tab. 117. 1805. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00177239]. = *Cassine australis* (Vent.) Kuntze
- Embothrium salicifolium* Vent. (*Proteaceae*), Descr. Pl. Nouv.: tab. 8. 1800. [AUSTRALIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00389595]. = *Hakea salicifolia* (Vent.) B.L. Burt

- Epilobium tomentosum* Vent. (*Onagraceae*), Descr. Pl. Nouv.: tab. 90. 1802. [WESTERN ASIA]: LT: G; probable ILT: G-DC (26). = *Epilobium hirsutum* L.
- Erica lageniformis* Salisb. (*Ericaceae*), Jard. Malmaison 1: tab. 33. 1804. SOUTH AFRICA.
- Erucaria aleppica* Gaertn. (*Brassicaceae*), Descr. Pl. Nouv.: tab. 64. 1802. WESTERN ASIA. = *Erucaria hispanica* (L.) Druce
- Escallonia discolor* Vent. (*Escalloniaceae*), Choix Pl.: tab. 54. 1808. SOUTH AMERICA: Santa-Fe de Bogota, *Umana s.n.* HT: G [G00341551].
- Eupatorium ayapana* Vent. (*Asteraceae*), Jard. Malmaison 1: tab. 3. 1803. [SOUTH AMERICA]: LT: G; ILT: G-DC; OM: G (27). = *Ayapana triplinervis* (Vahl) R.M. King & H. Rob.
- Eupatorium speciosum* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 79. 1802 [nom. inval.]. NORTH AMERICA. = *Liatris elegans* (Walter) Michx.
- Euphorbia mellifera* Aiton (*Euphorbiaceae*), Jard. Malmaison 1: tab. 30. 1803. MADEIRA.
- Ficus rubiginosa* Desf. ex Vent. (*Moraceae*), Jard. Malmaison 2: tab. 114. 1805. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341461].
- Gaultheria erecta* Vent. (*Ericaceae*), Descr. Pl. Nouv.: tab. 5. 1800. SOUTH AMERICA: Santa-Fe de Bogota, *Goudot s.n.* HT: G [G00352077]; IT: L [L0007087].
- Gnaphalium diosmifolium* Vent. (*Asteraceae*), Jard. Malmaison 2: tab. 74. 1804. [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00301225]. = *Oxothamnus diosmifolius* (Vent.) DC.
- Goodenia ovata* Sm. (*Goodeniaceae*), Descr. Pl. Nouv.: tab. 3. 1800. AUSTRALIA.
- Gordonia pubescens* L'Hér. (*Theaceae*), Jard. Malmaison 1: tab. 1. 1803 [nom. illeg.]. NORTH AMERICA. = *Gordonia pubescens* Cav.
- Gothofreda cordifolia* Vent. (*Apocynaceae*), Choix Pl.: tab. 60. 1808. SOUTH AMERICA: Santa Fe de Bogota, *Umana s.n.* HT: G [G00177309]. = *Oxyptalum cordifolium* (Vent.) Schltr.
- Guarea ramiflora* Vent. (*Meliaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 20. 1807 [cited in Choix Pl.: tab. 41. 1807]. WEST INDIES. Porto Rico, *Riedlé s.n.* HT: G [G00016888]. = *Guarea glabra* Vahl
- Guettarda scabra* (L.) Vent. (*Rubiaceae*), Choix Pl.: tab. 1. 1803. WEST INDIES.
- Helianthemum alyssoides* (Lam.) Vent. (*Cistaceae*), Choix Pl.: tab. 20. 1803. EUROPE. = *Halimium alyssoides* (Lam.) K. Koch
- Heliophila pinnata* L. f. (*Brassicaceae*), Jard. Malmaison 2: tab. 113. 1805. SOUTH AFRICA.
- Hemerocallis caerulea* Andrews (*Asphodelaceae*), Jard. Malmaison 1: tab. 18. 1803. CHINA. = *Hosta ventricosa* (Salisb.) Stearn
- Heracleum absinthifolium* Vent. (*Apiaceae*), Choix Pl.: tab. 7. 1803. [WESTERN ASIA]: LT: G; OM: G-DC; P (28). = *Zosima absinthifolia* (Vent.) Link
- Hibiscus heterophyllus* Vent. (*Malvaceae*), Jard. Malmaison 2: tab. 103. 1805. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341495].
- Hypericum dolabriforme* Vent. (*Hypericaceae*), Descr. Pl. Nouv.: tab. 45. 1801. NORTH AMERICA: LT (designated by ROBSON, 1996: 123): G; ILT: P, P-JU, P-MICH; OM: P-JU (29).
- Hypericum heterophyllum* Vent. (*Hypericaceae*), Descr. Pl. Nouv.: tab. 68. 1802. [WESTERN ASIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341524]; IT: P-JU n° 11796 [P006667166].
- Hypericum pyramidatum* Aiton (*Hypericaceae*), Jard. Malmaison 2: tab. 118. 1805. NORTH AMERICA. = *Hypericum ascyron* subsp. *pyramidatum* (Aiton) N. Robson
- Hypericum triplinerve* Vent. (*Hypericaceae*), Descr. Pl. Nouv.: tab. 58. 1801. NORTH AMERICA: sur les bords de l'Ohio, *Michaux s.n.* HT: G [G00341527].
- Illicium parviflorum* Michx. ex Vent. (*Schisandraceae*), Tabl. Regn. Veg. 3: 71. 1799 [cited in Descr. Pl. Nouv. tab. 22. 1801]. NORTH AMERICA: LT: G; ILT: P, P-JU, P-MICH; OM: G (30).
- Indigofera australis* Willd. (*Leguminosae*), Jard. Malmaison 1: tab. 45. 1804. AUSTRALIA.
- Indigofera diphyllo* Vent. (*Leguminosae*), Choix Pl.: tab. 30. 1804. WEST AFRICA: *Dupuis s.n.* HT: G [G00341568]; IT: P-JU n° 15367 [P00667190].
- Indigofera macrostachya* Vent. (*Leguminosae*), Jard. Malmaison 1: tab. 44. 1804. [CHINA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341451].
- Inga filipes* Vent. (*Leguminosae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 6. 1807 [cited in Choix Pl.: tab. 38. 1807]. WEST INDIES: *Poiteau s.n.* LT: G; ILT: G, G-DC (31). = *Cojoba filipes* (Vent.) Barneby & J.W. Grimes
- Inula gnaphalodes* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 75. 1802. [WESTERN ASIA]: LT: G; OM: G, G-DC, P (32). = *Pulicaria gnaphalodes* (Vent.) Boiss.
- Ionidium buxifolium* Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803. MADAGASCAR: LT: P-JU; ILT: G (33). = *Afrobyanthus buxifolius* (Vent.) Baill.
- Ionidium calceolaria* (L.) Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803. SOUTH AMERICA. = *Hybanthus calceolaria* (L.) Oken.
- Ionidium enneaspermum* (L.) Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803. INDIA. = *Afrobyanthus enneaspermus* (L.) Flicker
- Ionidium glutinosum* Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803. SOUTH AMERICA: Monte Video, *Commerson s.n.* HT: G [G00341441]; IT: P-JU n° 12786 [P00672091]. = *Hybanthus parviflorus* (L. f.) Baill.
- Ionidium heterophyllum* Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803. CHINA: LT: P-JU; ILT: G (34). = *Afrobyanthus enneaspermus* (L.) Flicker
- Ionidium ipecacuanba* (L.) Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803. CENTRAL AMERICA. = *Hybanthus calceolaria* (L.) Oken.
- Ionidium parviflorum* (L. f.) Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803. SOUTH AMERICA. = *Hybanthus parviflorus* (L. f.) Baill.
- Ionidium polygalifolium* Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803 [nom. inval.]. CENTRAL AMERICA. = *Hybanthus verticillatus* (Ortega) Baill.
- Ionidium strictum* Vent. (*Violaceae*), Jard. Malmaison 1: sub tab. 27. 1803. WEST INDIES: LT: P-JU; ILT: G-DC, P-JU (35). = *Viola stricta* (Vent.) Poir.
- Iris fimbriata* Vent. (*Iridaceae*), Descr. Pl. Nouv.: tab. 9. 1800. [CHINA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341469]. = *Iris japonica* Thunb.
- Ixia dubia* Vent. (*Iridaceae*), Choix Pl.: tab. 10. 1803. [SOUTH AFRICA]: Hort. Cels, *Ventenat s.n.* HT: G [G00190040].
- Ixia filiformis* Vent. (*Iridaceae*), Descr. Pl. Nouv.: tab. 48. 1801. [SOUTH AFRICA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341467]. = *Ixia patens* Aiton
- Ixia nervosa* Vent. (*Iridaceae*), Choix Pl.: sub tab. 10. 1803 [nom. inval.]. SOUTH AFRICA. = *Ixia maculata* L.
- Jasminum geniculatum* Vent. (*Oleaceae*), Choix Pl.: tab. 8. 1803 [nom. inval.]. NORFOLK ISLAND. = *Jasminum simplicifolium* subsp. *australiense* P.S. Green
- Jasminum glaucum* (L. f.) Aiton (*Oleaceae*), Descr. Pl. Nouv.: tab. 55. 1801. SOUTH AFRICA.
- Jatropha acuminata* Lam. (*Euphorbiaceae*), Jard. Malmaison 1: tab. 52. 1804. WEST INDIES. = *Jatropha integerrima* Jacq.
- Jatropha bernandiifolia* Vent. (*Euphorbiaceae*), Jard. Malmaison 1: sub tab. 52. 1804. WEST INDIES: LT: P; ILT: P-JU (36).
- Josephinia imperatricis* Vent. (*Pedaliaceae*), Jard. Malmaison 2: tab. 67. 1804. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00406199].
- Justicia orchiboides* L. f. (*Acanthaceae*), Jard. Malmaison 1: tab. 51. 1804. SOUTH AFRICA.
- Kennedia coccinea* (Curtis) Vent. (*Leguminosae*), Jard. Malmaison 2: tab. 105. 1805. AUSTRALIA.
- Kennedia monophylla* Vent. (*Leguminosae*), Jard. Malmaison 2: tab. 106. 1805 [nom. inval.]. AUSTRALIA. = *Hardenbergia violacea* (Schneev.) Stearn.
- Kennedia rubicunda* (Schneev.) Vent. (*Leguminosae*), Jard. Malmaison 2: tab. 104. 1805. AUSTRALIA.

- Kubnia rosmarinifolia* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 91. 1803. [WEST INDIES]: Hort. Cels, *Ventenat s.n.* HT: G [G00341474]; IT: P-JU n° 8339 [P00667201]. = *Brickellia eupatorioides* (L.) Shinnors
- Laguna squamea* Vent. (*Malvaceae*), Jard. Malmaison 1: tab. 42. 1804 [nom. inval.]. NORFOLK ISLAND. = *Lagunaria patersonia* (Andrews) G. Don
- Lantana nivea* Vent. (*Verbenaceae*), Jard. Malmaison 1: tab. 8. 1803. SOUTH AMERICA: LT: G; ILT: G (37).
- Laserpitium triquetrum* Vent. (*Apiaceae*), Descr. Pl. Nouv.: tab. 97. 1803. [WESTERN ASIA]: LT: G; OM: G-BOIS, P (38). = *Heptaptera triquetra* (Vent.) Tutin.
- Lasiopetalum ferrugineum* Sm. (*Malvaceae*), Jard. Malmaison 1: tab. 59. 1804. AUSTRALIA.
- Lasiopetalum ledifolium* Vent. (*Malvaceae*), Jard. Malmaison 1: sub tab. 59. 1804. AUSTRALIA: *Anon. s.n.* HT: G [G00030138]. = *Boronia ledifolia* (Vent.) DC.
- Lavatera acerifolia* Cav. (*Malvaceae*), Jard. Malmaison 2: sub tab. 120. 1805. CANARY ISLANDS. = *Malva canariensis* M.F. Ray
- Lavatera phoenicea* Vent. (*Malvaceae*), Jard. Malmaison 2: tab. 120. 1805. [CANARY ISLANDS]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341498]. = *Malva phoenicea* (Vent.) Alef.
- Leptospermum juniperinum* Sm. (*Myrtaceae*), Jard. Malmaison 2: tab. 89. 1805. AUSTRALIA.
- Leptospermum trilobulare* Vent. (*Myrtaceae*), Jard. Malmaison 2: tab. 88. 1805. [AUSTRALIA]: LT: G; OM: G (39). = *Leptospermum arachnoides* Gaertn.
- Lithospermum decumbens* Vent. (*Boraginaceae*), Descr. Pl. Nouv.: tab. 37. 1801. WESTERN ASIA: LT: P; ILT: G-DC; probale ILT: G (40). = *Arnebia decumbens* (Vent.) Coss. & Kralik
- Lotus anthyllioides* Vent. (*Leguminosae*), Jard. Malmaison 2: tab. 92. 1805. [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341440].
- Lotus gebelia* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 57. 1801. WESTERN ASIA: Syria, Alep, *Bruguère & Olivier s.n.* HT: G [G00341439].
- Lotus lanuginosus* Vent. (*Leguminosae*), Jard. Malmaison 2: sub tab. 92. 1805. [WESTERN ASIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00371153].
- Lubinia spatulata* Vent. (*Primulaceae*), Descr. Pl. Nouv.: tab. 96. 1803 [nom. inval.]. MASCARENE ISLANDS. = *Lysimachia mauritiana* Lam.
- Lunaria suffruticosa* Vent. (*Brassicaceae*), Descr. Pl. Nouv.: tab. 19. 1800. WESTERN ASIA: LT: G; ILT: G-DC, P; OM: G-DC, P (41). = *Fibigia suffruticosa* (Vent.) Sweet
- Magnolia discolor* Vent. (*Magnoliaceae*), Jard. Malmaison 1: tab. 24. 1803 [nom. inval.]. JAPAN. = *Magnolia liliiflora* Desr.
- Magnolia fasciata* Vent. (*Magnoliaceae*), Jard. Malmaison 1: sub tab. 24. 1803 [nom. inval.]. CHINA. = *Magnolia figo* (Lour.) DC.
- Magnolia pumila* Andrews (*Magnoliaceae*), Jard. Malmaison 1: tab. 37. 1804. CHINA. = *Magnolia liliifera* (L.) Baill.
- Maieta annulata* Vent. (*Melastomataceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 11. 1807 [cited in Choix Pl.: tab. 32. 1807]. INDONESIA: Java, *Labaye s.n.* HT: G [G00341515]. = *Macroleles annulata* (Vent.) Naudin
- Maieta argentea* Vent. (*Melastomataceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 13. 1807 [cited in Choix Pl.: sub tab. 33. 1807]. SOUTH AMERICA: Santa Fe de Bogota, *Anon. s.n.* HT: G [G00341516]. = *Miconia squamulosa* (Sm.) Triana
- Maieta scalpta* Vent. (*Melastomataceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 12. 1807 [cited in Choix Pl.: tab. 33. 1807]. WEST INDIES: St Domingo / Haiti, *Poiteau s.n.* HT: G [G00341572]; IT: G [G00341667]. = *Ossaea scalpta* (Vent.) DC.
- Manulea oppositiflora* Vent. (*Scrophulariaceae*), Jard. Malmaison 1: tab. 15. 1803. [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341530]. = *Chaenostoma hispidum* (Thunb.) Benth.
- Melaleuca ericifolia* Sm. (*Myrtaceae*), Jard. Malmaison 2: tab. 76. 1804. AUSTRALIA.
- Melaleuca gnidiifolia* Vent. (*Myrtaceae*), Jard. Malmaison 1: tab. 4. 1803. [AUSTRALIA]: LT: G; ILT: G-DC (42). = *Melaleuca thymifolia* Sm.
- Melaleuca hypericifolia* Sm. (*Myrtaceae*), Descr. Pl. Nouv.: tab. 10. 1800. AUSTRALIA.
- Melaleuca myrtifolia* Vent. (*Myrtaceae*), Jard. Malmaison 1: tab. 47. 1804. AUSTRALIA: LT: G; OM: G-DC (43). = *Melaleuca squarrosa* Sm.
- Melaleuca nodosa* (Sol. ex Gaertn.) Sm. (*Myrtaceae*), Jard. Malmaison 2: tab. 112. 1805. AUSTRALIA.
- Melastoma cymosum* Schrad. & J.C. Wendl. (*Melastomataceae*), Jard. Malmaison 1: tab. 14. 1803. SOUTH AFRICA. = *Clidemia cymosa* (Schrad. & J.C. Wendl.) A.H. Liogier
- Mercurialis elliptica* Lam. (*Euphorbiaceae*), Descr. Pl. Nouv.: tab. 12. 1800. EUROPA.
- Meriania ciliaris* Vent. (*Melastomataceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 14. 1807 [cited in Choix Pl.: tab. 34. 1807]. SOUTH AMERICA: Santa Fe de Bogota, *Umana s.n.* HT: G [G00341509]. = *Tibouchina ciliaris* (Vent.) Cogn.
- Mesembryanthemum carinatum* Vent. (*Aizoaceae*), Jard. Malmaison 2: tab. 109. 1805. [SOUTH AFRICA]: LT: (Ventenat, Jard. Malmaison 2: tab. 109. 1805) (44). = *Erepsia lacera* (Haw.) S. Liede
- Mespilus japonica* Thunb. (*Rosaceae*), Jard. Malmaison 1: tab. 19. 1803. CHINA. = *Eriobotrya japonica* (Thunb.) Lindl.
- Metrosideros anomala* Vent. (*Myrtaceae*), Jard. Malmaison 1: tab. 5. 1803. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341666]. = *Angophora hispida* (Sm.) Blaxell
- Metrosideros corifolia* Vent. (*Myrtaceae*), Jard. Malmaison 1: tab. 46. 1804. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00223382]. = *Kunzea ambigua* (Sm.) Druce
- Metrosideros floribunda* Sm. (*Myrtaceae*), Jard. Malmaison 2: tab. 75. 1804. AUSTRALIA.
- Metrosideros lophantha* Vent. (*Myrtaceae*), Descr. Pl. Nouv.: tab. 69. 1802. [AUSTRALIA]: LT: G; ILT: G (45). = *Callistemon salignus* (Sm.) Colv. ex Sweet
- Metrosideros saligna* Sm. (*Myrtaceae*), Descr. Pl. Nouv.: tab. 70. 1802. AUSTRALIA. = *Callistemon salignus* (Sm.) Colv. ex Sweet
- Michauxia laevigata* Vent. (*Campanulaceae*), Descr. Pl. Nouv.: tab. 81. 1802. WESTERN ASIA: Iran, Mt. Albour, *Bruguère & Olivier s.n.* LT (designated by RECHINGER & SCHIMAN-CZEIKA, 1965: 48): P [P00235504].
- Mimosa botrycephala* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 1. 1800. [AUSTRALIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341567]. = *Acacia botrycephala* (Vent.) Desf.
- Mimosa decurrens* Vent. (*Leguminosae*), Jard. Malmaison 2: tab. 61. 1804 [nom. illeg.] [non *M. decurrens* J.C. Wendl.]. [AUSTRALIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341517] [nom. dubium].
- Mimosa distachya* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 20. 1800 [nom. illeg.] [non *M. distachya* Cav.]. [AUSTRALIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341449]. = *Paraserianthes lophantha* (Willd.) I.C. Nielsen
- Mimosa floribunda* Vent. (*Leguminosae*), Choix Pl.: tab. 13. 1803. [AUSTRALIA]: LT: G; ILT: G, G-DC (46). = *Acacia floribunda* (Vent.) Willd.
- Mimosa glandulosa* Michx. (*Leguminosae*), Choix Pl.: tab. 27. 1804. NORTH AMERICA. = *Desmanthus illinoensis* (Michx.) MacMill.
- Mimosa horridula* Michx. (*Leguminosae*), Choix Pl.: tab. 28. 1804. NORTH AMERICA. = *Desmanthus illinoensis* (Michx.) MacMill.
- Mimosa juniperina* Vent. (*Leguminosae*), Jard. Malmaison 2: tab. 64. 1804. [AUSTRALIA]: LT: G; ILT: G; OM: G (47). = *Acacia ulicifolia* (Salisb.) Court.
- Mimosa linifolia* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 2. 1800. [AUSTRALIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341522]; IT: P-JU n° 14422 [P00667199]. = *Acacia linifolia* (Vent.) Willd.

- Mimosa longifolia* Andrews (*Leguminosae*), Jard. Malmaison 2: tab. 62. 1804. AUSTRALIA. = *Acacia longifolia* (Andrews) Willd.
- Mimosa lophantha* Vent. (*Leguminosae*), Descr. Pl. Nouv.: index 1803 [nom. nov.]. AUSTRALIA. = *Paraserianthes lophantha* (Willd.) I.C. Nielsen
- Mimosa pubescens* Vent. (*Leguminosae*), Jard. Malmaison 1: tab. 21. 1803. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* LT (designated by KODELA & WILSON, 2017: 30): G [G00341443 left-hand specimen]. = *Acacia pubescens* (Vent.) R. Br.
- Mimosa verticillata* L'Hér. (*Leguminosae*), Jard. Malmaison 2: tab. 63. 1804. AUSTRALIA. = *Acacia verticillata* (L'Hér.) Willd.
- Mirbelia reticulata* Sm. (*Leguminosae*), Jard. Malmaison 2: tab. 119. 1805. AUSTRALIA. = *Mirbelia rubrifolia* (Andrews) G. Don
- Myrsine retusa* Aiton (*Myrsinaceae*), Descr. Pl. Nouv.: tab. 86. 1802. AZORES. = *Myrsine africana* L.
- Myrtus horizontalis* Vent. (*Myrtaceae*), Jard. Malmaison 1: tab. 60. 1804. [WEST INDIES]: LT: G; ILT: G-DC (48). = *Eugenia disticha* (Sw.) DC.
- Nemesia chamaedrifolia* Vent. (*Scrophulariaceae*), Jard. Malmaison 1: sub tab. 41. 1804 [nom. inval.]. SOUTH AFRICA. = *Nemesia macrocarpa* (Aiton) Druce
- Nemesia foetens* Vent. (*Scrophulariaceae*), Jard. Malmaison 1: tab. 41. 1804. [SOUTH AFRICA]: LT: G; ILT: G-DC (49). = *Nemesia fruticans* (Thunb.) Benth.
- Nemesia linearis* Vent. (*Scrophulariaceae*), Jard. Malmaison 1: sub tab. 41. 1804. SOUTH AFRICA: Cape, Sonnerat *s.n.* LT: P-JU (50).
- Nepeta longiflora* Vent. (*Lamiaceae*), Descr. Pl. Nouv.: tab. 66. 1802. [WESTERN ASIA]: LT: G; ILT: P-JU; OM: G-BOIS, G-DC (51).
- Nicotiana undulata* Vent. (*Solanaceae*), Jard. Malmaison 1: tab. 10. 1803 [nom. illeg.]. [non *N. undulata* Ruiz & Pav.]. [AUSTRALIA]: LT: G; ILT: G (52). = *Nicotiana suaveolens* Lehm.
- Notelaea ligustrina* Vent. (*Oleaceae*), Choix Pl.: sub tab. 25. 1804. AUSTRALIA: Golfe d'Entrecasteaux, Leschenault de la Tour *s.n.* LT: P-JU; ILT: G (53).
- Notelaea longifolia* Vent. (*Oleaceae*), Choix Pl.: tab. 25. 1804. [AUSTRALIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00406213].
- Nycterium cardaminefolium* Vent. (*Solanaceae*), Jard. Malmaison 2: sub tab. 85. 1805 [nom. inval.]. CENTRAL AMERICA. = *Solanum angustifolium* Mill.
- Nycterium cordifolium* Vent. (*Solanaceae*), Jard. Malmaison 2: tab. 85. 1805 [nom. inval.]. CANARY ISLANDS. = *Solanum vespertilio* Aiton
- Nymphaea caerulea* Savigny (*Nymphaeaceae*), Jard. Malmaison 1: tab. 6. 1803. SOUTH AFRICA. = *Nymphaea nouchali* var. *caerulea* (Savigny) Verde.
- Oliveria decumbens* Vent. (*Apiaceae*), Descr. Pl. Nouv.: tab. 21. 1801. [WESTERN ASIA]: LT: G; ILT: G, P-JU n° 10396; OM: G-DC (54).
- Ononis vaginalis* Vahl (*Leguminosae*), Descr. Pl. Nouv.: tab. 32. 1801. NORTH AFRICA.
- Orobis saxatilis* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 94. 1803. [EUROPA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341444]. = *Lathyrus saxatilis* (Vent.) Vis.
- Parnassia asarifolia* Vent. (*Parnassiaceae*), Jard. Malmaison 1: tab. 39. 1804. [NORTH AMERICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341552].
- Pastinaca dissecta* Vent. (*Apiaceae*), Descr. Pl. Nouv.: tab. 78. 1802. [WESTERN ASIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341559].
- Pelargonium radiculatum* Vent. (*Geraniaceae*), Jard. Malmaison 2: tab. 65. 1804. [SOUTH AFRICA]: HT: G [G00341658] (55).
- Penaea mucronata* L. (*Penaeaceae*), Jard. Malmaison 2: tab. 87. 1805. SOUTH AFRICA.
- Persoonia linearis* Andrews (*Proteaceae*), Jard. Malmaison 1: tab. 32. 1804. AUSTRALIA.
- Phebalium squamulosum* Vent. (*Rutaceae*), Jard. Malmaison 2: tab. 102. 1805. [AUSTRALIA]: LT: G; ILT: G-DC (56).
- Phlomis samia* L. (*Lamiaceae*), Choix Pl.: tab. 4. 1803. WESTERN ASIA.
- Phlox reptans* Michx. (*Polemoniaceae*), Jard. Malmaison 2: tab. 107. 1805. NORTH AMERICA. = *Phlox stolonifera* Sims
- Phlox suffruticosa* Vent. (*Polemoniaceae*), Jard. Malmaison 2: sub tab. 107. 1805. [NORTH AMERICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341555]. = *Phlox carolina* L. s.l.
- Phyllica divaricata* Vent. (*Rhamnaceae*), Jard. Malmaison 1: sub tab. 57. 1804. [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341603]. = *Phyllica paniculata* Willd.
- Phyllica horizontalis* Vent. (*Rhamnaceae*), Jard. Malmaison 1: sub tab. 57. 1804. [SOUTH AFRICA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341574]. = *Phyllica plumosa* L.
- Phyllica oleifolia* Vent. (*Rhamnaceae*), Jard. Malmaison 1: sub tab. 57. 1804. [SOUTH AFRICA]: NT: P-JU (57).
- Phyllica squarrosa* Vent. (*Rhamnaceae*), Jard. Malmaison 1: sub tab. 57. 1804. [SOUTH AFRICA]: LT: G; ILT: G-DC (58). = *Phyllica plumosa* L.
- Phyllica thymifolia* Vent. (*Rhamnaceae*), Jard. Malmaison 1: tab. 57. 1804. [AUSTRALIA]: LT: G; ILT: G-DC (59).
- Phyteuma pinnatum* L. (*Campanulaceae*), Descr. Pl. Nouv.: tab. 52. 1801. WESTERN ASIA. = *Petromarula pinnata* (L.) A. DC.
- Picridium ligulatum* Vent. (*Asteraceae*), Jard. Malmaison 2: tab. 68. 1804. [NORTH AFRICA]: LT: G; OM: G-DC (60). = *Reichardia ligulata* (Vent.) G. Kunkel & Sunding
- Pittosporum undulatum* Vent. (*Pittosporaceae*), Descr. Pl. Nouv.: tab. 76. 1802. [CANARY ISLANDS]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00406203].
- Plantago vaginata* Vent. (*Plantaginaceae*), Descr. Pl. Nouv.: tab. 29. 1801. [NORTH AFRICA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341426]. = *Plantago lagopus* L.
- Platylobium formosum* Sm. (*Leguminosae*), Jard. Malmaison 1: tab. 31. 1804. AUSTRALIA.
- Platylobium obcordatum* Vent. (*Leguminosae*), Jard. Malmaison 1: sub tab. 31. 1804. AUSTRALIA: LT: G; OM: G (61). = *Bossiaea obcordata* (Vent.) Druce.
- Platylobium scolopendrium* Andrews (*Leguminosae*), Jard. Malmaison 1: tab. 55. 1804. AUSTRALIA.
- Podalyria australis* (L.) Willd. (*Leguminosae*), Descr. Pl. Nouv.: tab. 56. 1801. NORTH AMERICA. = *Baptisia australis* (L.) R. Br.
- Podalyria cuneifolia* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 99. 1803. [SOUTH AFRICA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341589]; IT: P-LAM [P00295866], G-DC [G00488125].
- Poiretia scandens* Vent. (*Leguminosae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 4. 1807 [cited in Choix Pl.: tab. 42. 1807]. WEST INDIES: Dominican Republic / Haiti: Poiteau *s.n.* HT: G [G00341442]; IT: G [G00341676], G-DC [G00479632], P-JU n° 1561 [P00678637]. = *Poiretia punctata* (Willd.) Desv.
- Poitea galeoides* Vent. (*Leguminosae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 17. 1807 [cited in Choix Pl.: tab. 36. 1807]. WEST INDIES: HT: G; IT: P (62).
- Polygonum acetosifolium* Vent. (*Polygonaceae*), Descr. Pl. Nouv.: tab. 88. 1802. [SOUTH AMERICA]: Hort. Cels, *Ventenat s.n.* HT: G [G00341374]. = *Muehlenbeckia sagittifolia* (Ortega) Meisn.
- Polygonum polygamum* Vent. (*Polygonaceae*), Descr. Pl. Nouv.: tab. 65. 1802. NORTH AMERICA: LT: G; OM: G, P-JU (63). = *Polygonella polygama* (Vent.) Engelm. & A. Gray
- Pongamia glabra* Vent. (*Leguminosae*), Jard. Malmaison 1: tab. 28. 1803 [nom. inval.]. INDIA. = *Pongamia pinnata* (L.) Pierre
- Pongamia grandiflora* Vent. (*Leguminosae*), Jard. Malmaison 1: sub tab. 28. 1803. INDONESIA: Java, Labaye *s.n.* LT (designated by ADEMA 2000: 420): P-JU n° 15666 [P00667171]. = *Derris elliptica* (Wall.) Benth.
- Pongamia sericea* Vent. (*Leguminosae*), Jard. Malmaison 1: sub tab. 28. 1803. INDONESIA: LT: P; ILT: P (64). = *Millettia sericea* (Vent.) Benth.

- Primula auriculata* Lam. (*Primulaceae*), Descr. Pl. Nouv.: tab. 42. 1801. **WESTERN ASIA**.
- Psoralea melilotoides* Michx. (*Leguminosae*), Jard. Malmaison 2: tab. 94. 1805. **NORTH AMERICA**. = *Orbexilum pedunculatum* var. *gracile* (Torr. & A. Gray) J.W. Grimes
- Pultenaea ericoides* Vent. (*Leguminosae*), Jard. Malmaison 1: tab. 35. 1804. **[AUSTRALIA]**: LT: G; ILT: G-DC (65). = *Aotus ericoides* (Vent.) G. Don
- Rafnia retusa* Vent. (*Leguminosae*), Jard. Malmaison 1: tab. 53. 1804. **[AUSTRALIA]**: LT: G; OM: G (66). = *Templetonia retusa* (Vent.) R. Br.
- Rafnia triflora* (L.) Thunb. (*Leguminosae*), Jard. Malmaison 1: tab. 48. 1804. **SOUTH AFRICA**.
- Ranunculus echinatus* Vent. (*Ranunculaceae*), Descr. Pl. Nouv.: tab. 73. 1802. **[NORTH AMERICA]**: Hort. Cels, *Ventenat s.n.* LT: G; ILT: G-DC (67). = *Ranunculus muricatus* L.
- Ranunculus ventricosus* Vent. (*Ranunculaceae*), Descr. Pl. Nouv.: sub tab. 73. 1802. **SOUTH AMERICA**: “Buenos Aires / Montevideo”, *Commerson s.n.* HT: G [G00341601]; IT: P-JU n° 10637 [P00671597]. = *Ranunculus muricatus* L.
- Redoutea heterophylla* Vent. (*Malvaceae*), Descr. Pl. Nouv.: tab. 11. 1800. **WEST INDIES**: LT (first step designated by FRYXELL, 1969: 211; second step designated here): G; ILT: FI, P, P-JU; OM: G (68). = *Cienfuegosia heterophylla* (Vent.) Garcke
- Rhamnus glandulosa* Aiton (*Rhamnaceae*), Jard. Malmaison 1: tab. 34. 1804. **CANARY ISLANDS**.
- Rhododendron punctatum* Andrews (*Ericaceae*), Descr. Pl. Nouv.: tab. 15. 1800. **NORTH AMERICA**.
- Riedlea crenata* Vent. (*Malvaceae*), Choix Pl.: sub tab. 37. 1807 [nom. inval.]. **SOUTH AMERICA**. = *Melochia crenata* Vahl
- Riedlea serrata* Vent. (*Malvaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 2. 1807 [cited in Choix Pl.: tab. 37. 1807]. **WEST INDIES**: Porto-Rico, *Riedlé s.n.* HT: G [G00341560]; IT: P-JU n° 12489 [P00672019]. = *Melochia villosa* (Mill.) Fawc. & Rendle
- Robinia viscosa* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 4. 1800. **[NORTH AMERICA]**: LT: G; ILT: P-JU; OM: G, G-DC, P, P-MICH (69).
- Rosa bracteata* J.C. Wendl. (*Rosaceae*), Descr. Pl. Nouv.: tab. 28. 1801. **CHINA**.
- Rosa diversifolia* Vent. (*Rosaceae*), Descr. Pl. Nouv.: tab. 35. 1801. **[CHINA]**: Hort. Cels, *Ventenat s.n.* HT: G [G00341558]. = *Rosa chinensis* var. *semperflorens* (W.M. Curtis) Koehne
- Rosa kamtchatica* Vent. (*Rosaceae*), Descr. Pl. Nouv.: tab. 67. 1802. **[RUSSIAN FAR EAST]**: LT: G; ILT: G (70).
- Royena ambigua* Vent. (*Ebenaceae*), Jard. Malmaison 1: tab. 17. 1803 [nom. illeg.] [non *R. ambigua* Salisb.]. **[SOUTH AFRICA]**: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341575]. = *Diospyros austroafricana* De Winter
- Rudbeckia pinnata* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 71. 1802. **NORTH AMERICA**: *Michaux s.n.* HT: G [G00341472]; IT: P [P02513854]. = *Ratibida pinnata* (Vent.) Barnhart
- Ruellia varians* Vent. (*Acanthaceae*), Descr. Pl. Nouv.: tab. 46. 1801 [nom. inval.]. **NEW ZEALAND**. = *Eranthemum pulchellum* Andrews
- Salvia acuminata* Vent. (*Lamiaceae*), Descr. Pl. Nouv.: tab. 50. 1801 [nom. illeg.] [non *S. acuminata* Ruiz & Pav.]. **NORTH AMERICA**: LT: G; ILT: P-JU; OM: G (71). = *Salvia azurea* Michx. ex Vahl
- Salvia compressa* Vent. (*Lamiaceae*), Descr. Pl. Nouv.: tab. 59. 1801. **[WESTERN ASIA]**: LT: G; ILT: C; OM: G-BOIS, P (72).
- Samyda spinulosa* Vent. (*Salicaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 150. 1808 [cited in Choix Pl.: tab. 43. 1808]. **WEST INDIES**: St. Thomas, *Riedlé s.n.* HT: G [G00364207].
- Scandix pinnatifida* Vent. (*Apiaceae*), Descr. Pl. Nouv.: tab. 14. 1800. **WESTERN ASIA**: Perse, *Bruguère & Olivier s.n.* HT: G [G00341470]; IT: P [P03260537]. = *Scandix stellata* Banks & Sol.
- Scutellaria incarnata* Vent. (*Lamiaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 18. 1807 [cited in Choix Pl.: tab. 39. 1807]. **SOUTH AMERICA**: Santa Fe de Bogota, *Umana s.n.* HT: G [G00435777].
- Selago lucida* Vent. (*Scrophulariaceae*), Jard. Malmaison 1: tab. 26. 1803. **[SOUTH AFRICA]**: LT (designated by HILLIARD, 1999: 12): (Ventenat, Jard. Malmaison 1: tab. 26. 1803). = *Microdon bracteatus* (Thunb.) Hartley
- Sideritis pullulans* Vent. (*Lamiaceae*), Descr. Pl. Nouv.: tab. 98. 1803. **WESTERN ASIA**: LT: G; OM: G (73).
- Silene longipetala* Vent. (*Caryophyllaceae*), Descr. Pl. Nouv.: tab. 83. 1802. **[WESTERN ASIA]**: Hort. Cels, *Ventenat s.n.* HT: G [G00341514].
- Solenandria cordifolia* P. Beauv. ex Vent. (*Diapensiaceae*), Jard. Malmaison 2: tab. 69. 1804. **NORTH AMERICA**: LT: G; ILT: G (74). = *Galax urceolata* (Poir.) Brummitt
- Sparrmannia africana* L. f. (*Malvaceae*), Jard. Malmaison 2: tab. 78. 1804. **SOUTH AFRICA**.
- Spartium parviflorum* Vent. (*Leguminosae*), Descr. Pl. Nouv.: tab. 87. 1802. **[WESTERN ASIA]**: LT: G; ILT: G; OM: G, G-DC, P (75). = *Genista angulata* (L.) Lam.
- Spartium sericeum* Vent. (*Leguminosae*), Choix Pl.: tab. 17. 1803 [nom. illeg.] [non *S. sericeum* Aiton]. **CANARY ISLANDS**: Broussonet *s.n.* HT: G [G00341546]. = *Genista clavata* Poir.
- Spathodea corymbosa* Vent. (*Bignoniaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 19. 1807 [cited in Choix Pl.: tab. 40. 1807]. **WEST INDIES**: HT: P (76). = *Bignonia corymbosa* (Vent.) L.G. Lohmann
- Statice fasciculata* Vent. (*Plumbaginaceae*), Descr. Pl. Nouv.: tab. 38. 1801. **[EUROPA]**: LT: G; OM: FI-W, P, P-TRF (77). = *Armeria pungens* (Link) Hoffmanns. & Link
- Sterculia grandiflora* Vent. (*Malvaceae*), Jard. Malmaison 2: sub tab. 91. 1805. **MASCARENE ISLANDS**: LT: P-JU; ILT: G; OM: P-LA (78). = *Cola acuminata* (P. Beauv.) Schott & Endl.
- Sterculia longifolia* Vent. (*Malvaceae*), Jard. Malmaison 2: sub tab. 91. 1805. **INDONESIA**: “Indes”, *Labaye s.n.* HT: G [G00358563]; IT: P-JU n° 12444 [P00667184].
- Sterculia macrophylla* Vent. (*Malvaceae*), Jard. Malmaison 2: sub tab. 91. 1805. **INDONESIA**: Java, *Labaye s.n.* HT: G [G00358565]; IT: P-JU n° 12450 [P00667177].
- Sterculia monosperma* Vent. (*Malvaceae*), Jard. Malmaison 2: tab. 91. 1805. **[CHINA]**: LT (first step designated by TANTRA, 1976: 154; second step designated here): G; OM: G (79).
- Sterculia nitida* Vent. (*Malvaceae*), Jard. Malmaison 2: sub tab. 91. 1805. **[WEST AFRICA]**: Cult. in Mauritius, *Michaux s.n.* HT: G [G00015680]; IT: P [P06655301, P06655303, P06655304, P06655305]. = *Cola nitida* (Vent.) Schott & Endl.
- Sterculia rubiginosa* Vent. (*Malvaceae*), Jard. Malmaison 2: sub tab. 91. 1805. **INDONESIA**: LT: P-JU; ILT: P; OM: LINN (80).
- Styphelia gnidium* Vent. (*Epacridaceae*), Jard. Malmaison 1: tab. 23. 1803. **[AUSTRALIA]**: LT: P-JU; OM: G (81). = *Leucopogon parviflorus* (Andrews) Lindl.
- Tagetes papposa* Vent. (*Asteraceae*), Descr. Pl. Nouv.: tab. 36. 1801. **[NORTH AMERICA]**: Hort. Cels, *Ventenat s.n.* HT: G [G00341538]. = *Dyssodia papposa* (Vent.) Hitchc.
- Tiarella biternata* Vent. (*Saxifragaceae*), Jard. Malmaison 1: tab. 54. 1804. **[NORTH AMERICA]**: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341466]; IT: P-JU n° 13453 [P00667205]. = *Astilbe biternata* (Vent.) Britton
- Tournefortia laurifolia* Vent. (*Boraginaceae*), Choix Pl.: tab. 2. 1803. **WEST INDIES**: LT: P; ILT: P (82). = *Tournefortia maculata* Jacq.

- Tournefortia mutabilis* Vent. (*Boraginaceae*), Choix Pl.: tab. 3. 1803. [INDONESIA]: Hort. Cels, *Ventenat s.n.* HT: G [G00386071]; IT: GH [GH00096883]. = *Tournefortia maculata* Jacq.
- Tradescantia rosea* Vent. (*Commelinaceae*), Descr. Pl. Nouv.: tab. 24. 1801. NORTH AMERICA: HT: G; IT P, P-MICH (83). = *Callisia rosea* (Vent.) D.R. Hunt
- Tristemma virusanum* Juss. (*Melastomataceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 15. 1807 [cited in Choix Pl.: tab. 35. 1807]. MADAGASCAR. = *Tristemma mauritianum* J.F. Gmel.
- Turpinia paniculata* Vent. (*Staphyleaceae*) in Mém. Cl. Sci. Math. Inst. Natl. France 8: 3. 1807 [cited in Choix Pl.: tab. 31. 1807]. WEST INDIES: LT: G; ILT: G, G-DC, P-JU (84). = *Turpinia occidentalis* (Sw.) G. Don
- Turraea rigida* Vent. (*Meliaceae*), Choix Pl.: tab. 48. 1808. MASCARENE ISLANDS: Mauritius, *Riche s.n.* HT: G [G00341518].
- Verbena mutabilis* Jacq. (*Verbenaceae*), Jard. Malmaison 1: tab. 36. 1804. SOUTH AFRICA. = *Stachytarpheta mutabilis* (Jacq.) Vahl
- Verbena stricta* Vent. (*Verbenaceae*), Descr. Pl. Nouv.: tab. 53. 1801. NORTH AMERICA: LT: G; ILT: G, P, P-MICH; OM: G-DC (85).
- Veronica gentianoides* Vahl (*Plantaginaceae*), Jard. Malmaison 2: tab. 86. 1805. WESTERN ASIA.
- Viburnum acerifolium* L. (*Adoxaceae*), Descr. Pl. Nouv.: tab. 72. 1802. NORTH AMERICA.
- Viburnum rigidum* Vent. (*Caprifoliaceae*), Jard. Malmaison 2: tab. 98. 1805. [MADEIRA]: LT (designated by MOURA et al., 2015: 18): (Ventenat, Jard. Malmaison 2: tab. 98. 1805). = *Viburnum rugosum* Persoon
- Vicia atropurpurea* Desf. (*Leguminosae*), Descr. Pl. Nouv.: tab. 84. 1802. NORTH AFRICA. = *Vicia benghalensis* L.
- Villarsia lacunosa* Vent. (*Menyanthaceae*), Choix Pl.: sub tab. 9. 1803 [nom. inval.]. NORTH AMERICA. = *Nymphoides cordata* (Elliot) Fernald
- Villarsia nymphoides* (L.) Vent. (*Menyanthaceae*), Choix Pl.: sub tab. 9. 1803. EUROPA. = *Limnanthemum nymphoides* (L.) Hoffmanns. & Link
- Villarsia ovata* (L. f.), Vent. (*Menyanthaceae*), Choix Pl.: tab. 9. 1803 [nom. inval.]. SOUTH AFRICA. = *Villarsia capensis* (Houtt.) Merr.
- Volkameria fragrans* Vent. (*Lamiaceae*), Jard. Malmaison 2: tab. 70. 1804. [INDONESIA]: Hort. Noisette, *Ventenat s.n.* HT: G [G00341433]. = *Clerodendrum chinense* (Osbeck) Mabb.
- Volkameria heterophylla* Vent. (*Lamiaceae*), Jard. Malmaison 2: sub tab. 70. 1804. MASCARENE ISLANDS: Mauritius, *Riche s.n.* HT: G [G00368624]. = *Clerodendrum heterophyllum* (Vent.) R. Br.
- Volkameria tomentosa* Vent. (*Lamiaceae*), Jard. Malmaison 2: tab. 84. 1804. [AUSTRALIA]: LT (designated by VERDCOURT, 1989: 696): (Ventenat, Jard. Malmaison 2: tab. 84. 1804). = *Clerodendrum tomentosum* (Vent.) R. Br.
- Xeranthemum bracteatum* Vent. (*Asteraceae*), Jard. Malmaison 1: tab. 2. 1803. [AUSTRALIA]: Hort. Malmaison, *Ventenat s.n.* HT: G [G00341478]. = *Xerobrysum bracteatum* (Vent.) Tzvelev.