H. SANTAPAU, S.J., F.L.S.

Key to the Gesneriacens of Bombay (after Cooke and others) :

Seeds with a long hair at each end; epiphytic shrubby plants;

1. Aeschynanthus.

Isanthera,

Seeds not tipped with long hairs; ground plants: Inflorescence cymose, axillary or terminal:

Didymocarpus. Pedicels adnate to the petioles Pedicels not adnate to the petioles :

Small, erect herbs with leaves nearly as broad 3. Epithema. as long ; stamens 2

Small undershrubs with stoutish stem; leaves oblanceolate, much longer than broad; stamens 4 perfect

Inflorescence in elongated racemes :

Statemens 4: calry winged, one wing often much larger than the rest Stamens 2: calry not at all, or at least not prominently winged, all the wings, when present, being about equal ... 6. Rhynchoglossum.

1. AESCHYNANTHUS Jack

The name Aeschynanthus was first published by Jack in Trans. Linn. Soc. and make Assam among was not published by Jack in Trans. Linn. Soc. 14: 42, 5: 2, f. 3, 1823, and is one year later than Trichosperson D. Don in Edinburgh Phil. Journ. 7: 84, 1822. The name Assamman, however, is included in the list of nominal conservanda in the 1947 edit. of the Intern. Rules of Botanical Nomenclature.

 Acsolynanthus Perrottetit A, DC, in DC, Prodr. 9: 261, 1845; C. B.
 Clarke in DC, Monogr, Phan. 5(1): 25, 1883; id, in Hook, f., Fl.
 Brit, Ind. 4: 339 1884; Dalz. & Glbs., Bomb. Fl., 135; Cooke, 2 ; 321 ; Gamble, Fl. Madr. 985.

Asschynanthus grandiflorus Graham, Cat. 146, 1839 (non Spreng.) Trichosporum Perrollelii (A. DC.) O. Kuotze in Roy, Gen. Plant.,

The habit and leaves of this plant are very similar to those of some of the Hoyas of Bombay, for which it might easily be taken. The corolla is long, tabular, somewhat curved, the colour being red or scarfer for the full is a long tabular, somewhat curved, the colour being red or scarfer as a long scarce of the following the scarce of Asclepialaceae, analog the plants in Kew Herbarium there is a specimen as a samong the plants in Kew Herbarium there is a specimen has been corrected by Sakella as 'Hoya pautillowa R. W.', the identification of which has been corrected by 'Hoya to the scarce of the s

2. Aeschynanthus Perrottetii A. DC. var. planiculmis C. B. Clarke in DC. Monogr. Phan, 5(1): 26, 1883; id, in Hook, f., Fl., Brit, Ind. 4: 340

Aeschynanthus planiculmis Gamble, Fl. Madr. 985, 1924. Aeschynanthus ceylanica Wight, Icon. t. 1347 (non Garda.)

Clarke in the original description of this variety, gives the following characters; branches compressed; leaves densely approximate, broadly lanceolate or elliptic, narrowed at both ends; umbels 2-4-flowered; corolla 35-40 mm. tong. Gamble, loc. cit., raised this variety to the rank of a species, and gave as long Gamble, loc. cit., rabest the variety to the rate of a species, and gave as the distinguishing features of the plant its flattened stems and its very broadly-owner leaves. Cook, 2. seems inclined to deay recognition to Clarke's warlety, as he explains the flattening of the stems as due to the epiphytic charac-variety, as he explains the flattening of the stems as due to the epiphytic charac-

for of the plant.

Among the specimens at Kew, there are a few with very markedly broadlawes, whilst others, and to be the typical species by Clarke, have narrow
lawes, whilst others, and to be the typical species by Clarke, have narrow
lawes specimens, sometimes both
stages between the broad and the narrow leaved specimens, sometimes both
stages between the broad and the narrow leaved specimens. In macanities types of leaves appearing on one and the same specimen. In my option, there is very little ground for erecting the broad-leaved plants into a variety, much less so for erecting them into a species.

when Clarke first published the name of his variety in 1883, he called it When Clarke first published the name of his variety in 1983, he called it standards, and the publication being valid, the name must stand as a legit, mate one. In 1884, Fl. Rit. Ind. 4: 340, the name appeared changed into mate one. In 1884, Fl. Rit. Ind. 4: 340, the name appeared changed into Material is moreover, in Kew Herbarium there are numerous sheets with this memoral spelling written in Clarke's own handwriting; this shows that Clarke intended the name to be falsy intended the name to be falsy into the clarke's MS before publication in the Clarke's MS before publication in the clarke's MS before publication in the clarke's missing the candolle introduced the correction into Clarke's MS before publication in the clarke's missing the considered of the correction into Clarke's MS before publication in the clarke's missing the considered of the correction into Clarke's MS before publication in the clarke's missing the considered of the correction into Clarke's missing the correction into the correction into Clarke's missing the correction into the De Candolle Introduced the correction into Charkes' are more promotion in the DC. Monogr. Pinn., the hyporid name platyrulmis being considered offensive to the ears of a good Latin scholar. Be that as it may, the name was actually and validly published as planiculmis and this is the spelling that has to be retained.

2. DIDYMOCARPUS Wall.

The generic name Didymocarpus Wall, in Edinb. Phil. Journ. 1: 378, 1819 is nomen conservandum agains: Roettlera Vahl. Enum., 1: 87, 1805.

1. Didymocarpus hamosa Wall., Cat. no. 788, 1829, nom. nud.

Chirila hamora (Wall.) R. Br. in Bena. Pl. Jav. Rar. 117, 1840; Clarke. In Comm. et Cyrl. Beng. 110, t. 78, 1874; id. in, DC. Monogr. Phan in Comm. et Cyrl. Beng. 110, t. 78, 1874; id. in, DC. Monogr. Phan 5(11): 128, 1885; id. in Hook. f.. Fl. Brit. Ind., 1: 360, 1884; Cooke 5(11): 128, 1885; id. in Hook. f.. Fl. Brit. Ind., 1: 360, 1884; Cooke

Didymocarbus cristata Dala. in Hook. Kew Journ. Bot. 3: 225, 1881;
Dala. & Gibs., Bomb. Fl. 134.
Roefflera hamour (Wall.) O. Kuntze, Rev. Gen. Pl. 415, 1891; Fritsch
in Engler, Pflannerlam, 4(3b): 148, 1895.

Wallich published the name of Didymocarpus hamosa in his Catalogue or Wallen published the name of Daymotoryan ramous in the valuations of List, but in the absence of a description, the publication was not valid; the plant was first described by R. Brown under the name of Chirida hamosa, the plant published the control of the con name Paymes are names. West, comig steed as a syndrom by strown, the date 1840 must therefore be considered as the earliest date for the valid publication of Christia harmoss as well as Didymocarous harmosa.

tion of Chirila hamosa as well as Distributed pas Admiss.

When this plant is in its vegetatives stages, i.e. in full foliage, it is very similar to Klugia moloniana or Rhynchoglossum obliquum, its leaves are very oblique, and of about the same size as these of the two plants just meationed. The most typical part of the plant is that the pedicels of the flowers and cruits are admate to the pedicel of the leaves, in the axil of which they are produced. After the decay of the leaves, the plant presents a very strange appearance.

3. KLUGIA Schlecht.

Klingia notoniana (Wall.) A. DC, Prodr. 9: 276, 1845; Wight, Icon. 1.
1335, and Illustr. t, 159 bis; Bot. Mag. t, 4639; C. B. Clarke, im
DC, Monogr. Phan. 5(1): 139, 1882; id. in Hook, f., Fl. Brit, Ind.
4: 369, 1884; Fritsch in Engl. Pfanzenfam, 4(3b): 185. f. 71,
1895; Cooke, 2: 323.
 Willustration of the Physics of the Ph

Wulferia notoniana Wall., Tent. Fl. Nep. 16, 1826; id. in Cat. 409. Rhynchoglossum scabrum Dalz. in Kew Journ. Bot. 2: 140, 1850. Klugia scabra Dalz. and Gibs., Bomb. Fl. 134. Klugia noloniana var. scabra C. B. Clarke, in Kew Herb.

When this plant is neither in flower nor in fruit, it is not possible to separate it from Rhynchoglossum obliquum or its variety parvillora. When in flower it is quite easy, as its flowers are considerably larger than those of £ \$puide-glossness; its calve, moreover, is 5-winged, one of the wings being considerably larger than the rest, at least on many occasions; and even when the wings are equal they are much larger than those \$Appendings and weak the wings are This seems to be a relatively rare plant in Bombay; it is only towards the south of the Presidency that it becomes tolerably common.

4. RHYNCHOGLOSSUM Blumo

1. Altanhaglossum obligaum Humo, Bildr, 741, 1876; Clarke in DC. Monogra Phan. 5(1): 461, 1883.

Rhymchoplottum Blumer DC, Prode. 9: 274, 1848.

Wulferia intermedia Wall. Cat. 408, 1829

Loxofts informedia Benth., Scroph. Ind. 57, 1835.

This is the typical variety, and does not occur in Western India; it is the commoner variety in lurma, Java, Sumatra. This species is very similar in most respects to Argeia abstracts A.D.C., from which it differs mainly in having only two stamers and a plain, not-winged calyx.

Adyschoglesson obliquene Blume, var. harviflaru C. B. Clarke in DC. Monogr. Phan. 5(1): 163, 1883; id. in Hook, f., Fl. Brit. Ind. 1: 367, 1884; Cooke, 2: 534.
 Adyschoglesson DC. Prodr. 9: 274, 1845; Wight, Illerit. t. 139 bis, f. 7; C. B. Clarke, Comm. et Cyrt. Beng., t. 88, 1874 (non Blume).

Appuchic fession replaneum Hook, Bot, Mag. t. 4198.
Appuchic fession Absolet Del. Prodr. 9: 274, 1845.
Wallens oblique Walt., Tent. Fl., Nep. 45, t. 48, 1896; id. in Cat. 407,

This is much the commoner form in Western India; Clarke in DC, Monogr. Phan, loc, cit,, states that this plant is found in valleys in subtropical districts aimost everywhere, and that it is about the most widely spread among the plants

belonging to this family.

This variety differs from the typical variety in having its onlyx teeth very accountable, and the inferior corolla lip marrower than and about twice as long as the superior lip. In general, flowers of the variety are smaller than those of the typical plant. Many of the plants which I have collected in Khandala on the Western Ghants show the remarkable arrangement of the influencestics which was mentioned in the case of Dishwacarphy, that is to say, the inflorest centre is sedantate to the peticles, and there may be as many as four or five racentes arranged in a row along the peticle of a single leaf.

R. obliquem var, Partellows is a very common plant along the Western Ghants; it is generally found on rocky ground, occasionally on trees or on old walls; the leaves are very thin and hence rather difficult properly to preserve in herbartum specimens, unless special care is taken in the pressing process.

process.

5. EPITHEMA Blume

Epithema carmoines Benth, Scroph, Ind. 57, 1835; Clarke in DC. Monogr. Phan. 5 (1): 127, 1883.
 Athene carmoines G. Don, Syst. 4: 685, 1837-1838.
 This is an East Humshyan plant, not found in Western India.

Epithema carmosum Benth., var. Ass pida C. B. Clarke, in DC. Monogr. Phan. loc. cit. 178; id. in Hook. f., Fr. Brit. Ind. 4: 309, 1841.

Epithessa Mispidum Wight, MS. in Herb. Kew.

Epithessa Putilla C. B. Clarke MS. in Herb. Kew.

Epithessa Putilla C. B. Clarke MS. in Herb. Kew.

Epithessa Putilla C. B. Clarke MS. in Herb. Kew.

This variety, at indicated by the name, differs from the typical plant in baving hispld leaves and peduncies. It seems to be a fairly raw plant in Bombay, except in the Southern districts of the Presidency, where it is tolerably common. The variety passitis Clarke appears to be but a young specimen

6. ISANTHERA Necs

Isanthera permolits Nees in Trans. Linn. Soc. 17: 82, 1834; DC. Prodr. 9: 279, 1845; Wight, Ison. t. 1355; Clarke in Hook. f., fl. Brit. Ind. 4: 372, 1845; Fritzeh in Engl. Pflancenfam. 4 (39): 189, 1895; Santapau in Journ. Bomb. Nat. Hist. Soc. 46: 389.

For a full description of this plant, see the last reference, where I gave the plant as a new record for the Presidency of Bombay. The shape of the lesves and the habit of the plant is quite distinct from the rest of the Generalecae of Bombay. It seems to be a fairly common plant in Southern India; but as for Bombay, I have only seen the specimens mentioned in my paper in this Journal.

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