

2063

THE

# GARDENERS' CHRONICLE.

A Weekly Illustrated Journal

OF

HORTICULTURE AND ALLIED SUBJECTS.

VOL. X.—NEW SERIES.

JULY TO DECEMBER, 1878.

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1878.

# THE GARDENERS' CHRONICLE.

Established 1841.

A WEEKLY ILLUSTRATED JOURNAL OF HORTICULTURE AND ALLIED SUBJECTS.


No. 261.—VOL. X. { NEW SERIES. }

SATURDAY, DECEMBER 28, 1878.

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 The GARDENERS' CHRONICLE for Saturday next, Jan. 4, 1879, will contain a BEAUTIFULLY COLOURED ALMANAC.

For further particulars, see p. 808.

## RICHMOND HORTICULTURAL SOCIETY.

President—H.S.H. THE DUKE OF TECK, G.C.B.  
The Fifth SUMMER EXHIBITION of Plants, Flowers, Fruit, &c., will be held in the Old Deer Park, Richmond, on THURSDAY, June 26, 1879.  
The first AUTUMN SHOW of Chrysanthemums, Fruit, &c., will be held in the Assembly Rooms of the Castle Rooms, Richmond, on WEDNESDAY and THURSDAY, November 12 and 13, 1879.

Schedules can be obtained of the Honorary Secretary.

ALBERT CHANCELLOR, Hon. Sec.  
1, King Street, Richmond, Surrey.—Dec. 18, 1878.

### To the Trade.

**CARTER, DUNNETT AND BEALE'S** General CATALOGUE of Garden, Flower and Agricultural Seeds, has been posted as usual to all their customers; should any fail to be delivered a duplicate copy will be sent on application, High Holborn, London, W.C.

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Persons desirous of obtaining Trees of the above, grown by the late R. Webb, of Calcot, should give early orders to **THE MANAGER,** Calcot Gardens, Reading. CATALOGUES post-free on application.

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**HAMPTON COURT BLACK HAM-BURGH VINE.**—Strong fruiting well ripened Canes of this well known Grape, 5s., 7s. 6d., and 10s. 6d. each; Planting Canes, 3s. 6d. each. Also a good stock of most of the best kinds.

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**CHARLES R. FREEMAN AND FREEMAN,** Seed Growers, Norwich.

numbering only twenty-eight—of which twenty are common—the choice would be extremely limited were the space only planted with native trees, while the same authority says that "England can grow double or treble the number of trees the United States can." The forests of the several zones proposed to be here represented are:—

1. The Eastern American forest with its many deciduous trees, either free-flowering or with fine autumnal tinted leaves.

2. The Western American forest, with its rich and numerous Conifers.

3. The forests of Eastern Europe and Western Asia, with the plants of the Mediterranean coasts.

4. The most remarkable of all the forest regions of the temperate zone—that of Eastern Asia and Japan. This Mr. Wallace proposes to increase by adding the plants of the temperate regions of the higher Himalayas.

5. The forests of the temperate southern hemisphere, with the plants of Chili and Patagonia, Australia and New Zealand.

Referring to the earlier parts of Mr. Wallace's pamphlet, it is evident from his description that the portion of the Forest nearest to London already so feels the effect of the smoke from many factories of the East-end that planting in the way he suggests would be useless in that part.

Proceeding northwards the ground rises in height somewhat above sea-level, but the soil is principally of a heavy nature until we reach the large tract of undulating rising ground which, beginning north of Buckhurst Hill, and bounded on the east by the long straggling village of Loughton, rises till it forms a plateau with an elevation of 600 to 700 feet above sea-level at High Beech—thence stretching a distance of 4 miles to the old market town of Epping.

Here, if anywhere, is the situation for the forest Mr. Wallace suggests. The soil is various. On the hill-top a surface soil, about 2 feet deep, is of light sandy loam, in the open covered with heather or bracken of some years' growth—amongst the pollarded Hornbeam and Oak the surface soil having a deposit of the leaves of many past years. Below the loam there seems to be, or to have been, some varying depths of gravel; below this sand, or clay without sand. The soil of the intervening valleys seems to consist principally of the clay, with washed down deposits of the gravel in the watercourses, the springs of which rise in bogs abounding with *Drosera* and other bog plants.

Where the plateau becomes broader, towards Epping, some of the wider undrained open spaces are covered with a heavy sour peat. There are in this portion some large groves of high Beech trees, which are one of the most popular resorts; but most of the land is open, or at least covered with the pollards already alluded to.

A nursery in this neighbourhood, established some eighteen years since for the culture of such plants, seems to have almost anticipated Mr. Wallace's scheme, or at least stands ready to bear witness to the fitness of the soil and site for his experiments. Taking his several zones, the plants of each which have been found to thrive extraordinarily well there can be cited.

Of the trees and shrubs of his first or Eastern American zone, of course *Rhododendrons*, *Azaleas*, and other lower growing shrubs, as *Kalmias*, *Andromedas*, are thoroughly at home, while the bog plants, the *Cranberries*, the *Rhodoras* thrive. In the bogs likewise, side by side with our native *Droseras*, the *Sarracénias* thrive, flower, and seed. The herbaceous plants of these woods, the *Trilliums* and *Spergulas*, as well as the glorious North American *Liliums*, *superbum* and others, grow, flower, and increase as if at home.

Of the forest trees of the zone which have taken kindly to the place we can instance the *Scarlet Oaks* (which in one year grow as much as in the lower Lea valley in three). The *Tulip-tree*, in its several forms, the *Robinias*, the beautiful *Acers*, such as *saccharinum*, *dasy-carpum*, and others; *Gymnocladus*, *Gleditschias*, and *Liquidambar*; while the deciduous *Magnolias*, such as *M. glauca*, *M. acuminata*, all attain tree-like growth. The deciduous *Cypress* is at home, and the evergreen *Firs* of the zone, *P. rigida* and *P. Strobis*, succeed well.

George Paul.

(To be continued.)

## New Garden Plants.

CYCAS SIAMENSIS, Miq.\*

A species resembling *C. circinalis*. The specimen before us has a stout, glabrescent, oblong stock, 16 inches in circumference, marked with circular furrows, almost as in the root of *Bryonia dioica*. The leaves measure about 30 inches by 8 inches, are oblong in form, flat or slightly revolute at the edges, and pinnately divided into about sixty-five pairs and one terminal segment. The lower thirteen or fourteen segments are represented by spines which extend nearly to the base of the stalk, there being no intermediate form between the leaf-segment and the spine. The rachis is puberulous, rounded above, more so beneath. The segments in the centre of the leaf measure about 4 inches by  $\frac{1}{4}$  inch, and gradually diminish in size towards the apex and towards the base; all are linear-lanceolate, abruptly spine-pointed at the apex, and decurrent at the base along the rachis; the midrib is prominent on both surfaces.

The species was imported from Cochin China, and is now in the collection of Mr. Bull. *M. T. M.*

ZAMIA? AMPLIFOLIA, Hort. Bull. n. 1473.†

This is a handsome species, with an oblong obtuse glabrous caudex. The leaf-stalks are erect, terete, purplish, puberulous, 15–16 inches long, about the thickness of the little finger, and with scattered minute prickles. The blade is unequally pinnatisect,  $4\frac{1}{2}$  inches long, the segments in two pairs; each segment is about 11 by 3–4 inches, glabrous, coriaceous, yellowish green, broadly ovate, lanceolate, acuminate, obliquely wedge-shaped at the thickened base, entire, strongly ribbed on both sides, rachis angular.

This seems to differ from any species in cultivation, and is not referable to any form described in books or herbaria. Possibly, however, when better known it may prove to be a variety of *Zamia Roezlii* or *Z. muricata*. *M. T. M.*

ENCEPHALARTOS ACANTHA, sp. nov.‡

This is a very distinct looking species, presumably an *Encephalartos*, though the fructification is not yet known. It was introduced to Mr. Bull's nursery from Graham's Town, and there is at Kew a small specimen in cultivation, but it is not represented in the herbarium, unless a fragment from Natal be referable to the same species. The stock is subglobose (4–6 inches in circumference), afterwards becoming cylindrical, with ash-grey woolly tomentum, and marked above with the prominent triangular bases of fallen leaves and with perulæ.

The leaves, which are arranged in a terminal crown, measure some 28–30 inches (inclusive of the petiole, 4 inches), by 3–4 inches, and are oblong-obtuse, arching and conduplicate. The petiole and rachis are terete or somewhat flattened on the upper surface, destitute of spines but covered with woolly down at first, the segments closely crowded, nearly opposite, in 120 pairs, ascending, those in the middle of the leaf 3 inches by  $\frac{1}{4}$  inch, the others gradually diminishing in size towards the base and apex, all linear oblong, scarcely tapering at the base, ending suddenly at the apex in a short translucent spine, somewhat glaucous above, marked beneath by five prominent nerves, and with thickened margins. The

\* *Cycas siamensis*, Miquel ex A. D.C. Prod. xvi., ii., p. 528; Regel, Cycadearum Gen. et Spec. Revisio, p. 10.

† *Zamia? amplifolia*, Hort. Bull.—Petiolis pubescentibus sparse aculeatis; foliis 2-jugis segmentis subsessilibus late oblique ovato-lanceolatis acuminatis integris basi cuneatis incrassatis, utrinque prominenter plicato-nervosis glabris 11×3 poll.—Ex. Nov. Granat. in hort. Bull. introduct.

‡ *Encephalartos acantha*, Mast., n. sp.—Caudice subglobo, serius cylindrato, elato, cinereo-lanuginoso superne foliorum defluxorum reliquiis crassis trigonis notato; foliis (petiolo 4–5 poll. incluso) 28–30 poll. × 3–4 poll. oblongo-obtusis arcuatis complicatis pinnatisectis, petiolo inermi rachique teretibus vel superne parum complanatis lanuginosis glabrescentibus; segmentis numerosissimis (ad 120-jugis) suboppositis ascendentibus oblongo-linearibus integris basi vix attenuatis apice subito in spinulam desinentibus, superne subglaucis subtus prominenter 5-nerviis, marginibus incrassatis vix revolutis in medio folii 3 poll. long.  $\frac{1}{4}$  poll. lat. basin et apicem versus gradatim descentibus; strobilibus hucusque ignotis. — Ex Graham's Town, Afr. Aust. in hort. Bull. introduct. — *Examina* 4 vidi.

name *acantha* = *spina piscis*, is applied from the resemblance of the leaves to the vertebral column of a fish. *M. T. M.*

STANHOPEA TRICORNIS, Lindl.

A delicate pallid small *Stanhopea* plant of the usual shape, with a pendent peduncle with two flowers of extraordinary size, when compared with the small bulbs. The flowers are quite astonishing. Nobody could decide at a distance they belonged to a *Stanhopea*. The lateral sepals are spread, the odd one is bent backwards over the ovary. The lip cannot be seen, for the petals make a cover over it, leaving part only of the broadly winged column to be seen between them. The petals are commonly inflexed at their tops, as if to protect the anthers against the insects, to speak in modern manner. The lip has a nearly half-globular hypochile, ligulate acute horns, with a tooth on the inferior side, and an oblong retuse epichile, that has a sort of a goitre under its apex, just as one sees in *Vanda alpina* and its allies of the *cristata* group, or in *Renanthera labrosa* (*Arrhynchium labrosum*, *Renanthera bilinguis*). A triangular depressed blade stands at the base of the epichile, showing a few indications of obtuse teeth. The column has broad oblong wings. When I saw the flowers fresh they were of a whitish ochre colour, having their tips a little darker. Crimson spots stand internally on the disk and base of petals and on the very base of sepals, shining through the rather pellucid hyaline tissue. The ochre-coloured hypochile has white longitudinal lines externally. It is rough internally, showing at once some rather dark purledots. The horns and epichile are of a darker ochre colour, verging to light undecided orange. Wings of column of most pallid ochre, body green.

These were the colours of the just expanded flowers. I took them to Ems, and when I there opened my precious box I was exceedingly puzzled to see the petals and base of the lip of a light copper colour, as in *Phajus cupreus*, *Rchb. f.* (*Limatodes mishmensis*, Lindl.), where they are other times light purple. A woodcut showing a flower and a lip had been published both in these columns, 1850, p. 295, and in Paxton's *Flower Garden*, i., p. 31. I could well understand the correct representation as soon as I had seen the living flowers. The discoverer of the species (my late celebrated friend, J. Von Warszewicz) had sketched pink petals, other parts white. No doubt he saw the flowers only at a later period. They appear to last a good while longer than is usually customary with *Stanhopeas*. The species has been collected quite lately (April, 1877) by Mr. Low's excellent collector, my German countryman, Mr. F. C. Lehmann. He found the flowers yellowish white, coming, no doubt, when they just had expanded.

This very rare and very extraordinary plant was once in the garden of old Horticultural Society at Chiswick. I possess a very good specimen, with Dr. Lindley's autographic label, sent in 1855. The plant is also very well represented in his herbarium. I never saw the plant alive. Thus you may imagine my pleasure and satisfaction when I saw it in September flowering at Burford Lodge, Box Hill, near Dorking, in Sir Trevor Lawrence's collection which might be called an orchidic *fêrie*. My gratification even increased when the two flowers were in my possession, well packed in a box. They were sketched at Kew and sketched at Ems, and I dried them quite reluctantly, sorry to lose sight of their interesting features. I had some scrupulous thoughts in naming it, the more since Dr. Lindley's types in his own collection show very different, far straighter, narrower horns. Yet my seven specimens show all transitions, and I finally can state that those organs show great variation. Sir Trevor Lawrence kindly informed me that his plant was obtained at a Klabochian sale ensconced between the stems of a *Bollea cœlestis*, and probably quite overlooked or despised by the other visitors. *H. G. Rchb. f.*

CYMBIDIUM AFFINE, Griff., saltem Lindl.\*

This is in the way of *Cymbidium eburneum* and *C. Mastersii* in growth, with flowers more like those of the last species in a rich raceme. The lip supplies the difference. The flowers are white, with a few purplish dots on the anterior part of the lip. As to the hairiness of the lip it only appears afterwards, when the specimen is dried. I have seen it in the very types of at least Dr. Lindley's *C. affine*. I believe myself right in combining this with *C. micromeron*, [Lindl.]. As to Dr. Griffith's representation, tab. 291, it might be better not to quote it at all. It looks so much like the common *C. Mastersii*, and the inner surface of the lip not

\* *Cymbidium affine*, Griff. Not. iii., 3, saltem Lindl., Cont. n. 180.—Foliis linearibus acuminatis loratis rigidis; racemo erecto seu prono subaequalibus; racemo vaginis acuminatis densis vestito apice plurifloro; bracteis triangulis obtusatis; sepalis ligulatis acutis; tepalis linearibus acutis, labello flabellato apice trifido, laciniis lateralibus triangulis antorsis; labellum apice cuneata oblonga undulata, carinis geminis a medio disco usque ante basin lacinae mediae, ibi semiovato dilatatis; columna trigona anguste alata apice inclinata basi cum labello connata.—*Cymbidium micromeron*, Lindl. Cont. d. 184. *H. G. Rchb. f.*