

THE
GARDENERS' CHRONICLE.

A Weekly Illustrated Journal

OF

HORTICULTURE AND ALLIED SUBJECTS.

VOL. XV.—NEW SERIES.

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With this Number is presented
a Double-page Coloured Plate of
"DAFFODILS."

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NOTICE TO ADVERTISERS.

FRIDAY NEXT, April 15, being GOOD FRIDAY, the "GARDENERS' CHRONICLE" will be published on THURSDAY, the 14th inst., at 2 p.m.

ADVERTISEMENTS for NEXT WEEK must therefore reach the Office not LATER than WEDNESDAY MORNING, the 13th inst.

ROYAL HORTICULTURAL SOCIETY,

South Kensington, S.W.
NOTICE.—COMMITTEES' MEETINGS, Fruit and Floral, at 11 A.M.; Scientific, at 1 P.M.; GENERAL MEETING for the Election of Fellows, &c., at 3 P.M., on TUESDAY NEXT, April 12.

N.B.—An EXHIBITION of choice FLOWERS and FRUITS will be held in connection with the Meetings of the Fruit and Floral Committees in the Conservatory. Band of the Royal Horse Guards from half-past 3 o'clock P.M. Admission, 1s.

ROYAL HORTICULTURAL SOCIETY,

South Kensington, S.W.
THE NATIONAL AURICULA SOCIETY will hold its Annual EXHIBITION of AURICULAS in the Conservatory of the Royal Horticultural Society at South Kensington, on TUESDAY, April 10. Band of the Royal Horse Guards (Blue) from half-past 3 o'clock P.M. Doors open at 1 o'clock. Admission, 1s.

N.B.—The Rev. Francis D. Horner will deliver a Lecture on the Auricula in the Conservatory, commencing at 3 o'clock P.M.

ROYAL HORTICULTURAL SOCIETY,

South Kensington, S.W.
NOTICE TO FELLOWS.—The Council having procured a quantity of CORNUS GLADIOLI are prepared to distribute the same in packets to the Fellows. Applications to be addressed to the SECRETARY, Royal Horticultural Society, South Kensington, S.W. N.B.—If required to be sent by post, 3/4d. in stamps must accompany each application.

ROYAL BOTANICAL AND HORTICULTURAL SOCIETY OF MANCHESTER.

THE GRAND NATIONAL HORTICULTURAL EXHIBITION of 1881, will Open, as usual, the Friday before Whit Sunday (June 3). INTERNATIONAL HORTICULTURAL EXHIBITION of 1881 will Open on August 24. THREE THOUSAND POUNDS in PRIZES at the above Exhibitions. For Schedule, &c., apply to the undersigned.

BRUCE FINDLAY,
Royal Botanic Gardens, Manchester.

THE HORTICULTURAL EXHIBITION

to be held in connection with the Essex Agricultural Society's Show at Southend-on-Sea will take place on WEDNESDAY and THURSDAY, June 15 and 16, when SILVER CUPS and PRIZES to the value of about ONE HUNDRED and THIRTY POUNDS will be offered for Plants, Fruit, Flowers, and Vegetables. No Entrance Fee will be charged of Exhibitors. ENTRIES CLOSE JUNE 1. The Schedule of Prizes, Entry Forms, and full particulars, may be obtained of

Mr. JOHN TAYLOR, Jun., Hon. Sec.

25, Cambridge Terrace, Southend-on-Sea, Essex.

Lawns and How to Make Them.—See CARTERS' PRACTICAL GARDENER.

Price 1s.; post-free, 1s. 4d. (Winners of the only Gold Medal for Lawns, Paris, 1878.)
The Queen's Seedsman, 237 and 238, High Holborn, London, W.C.

WANTED, CAULIFLOWER PLANTS.

For SALE, cheap, 1 ton MYATT'S ASHLEAF POTATOS, true and sound: surplus stock.
EXECUTORS late G. J. Woollett, Seed Merchant, Caterham, Surrey.

GROWERS having Surplus Stocks of CUT FLOWERS, Choice FRUITS, &c., should communicate with WISE AND RIDES, 3, Tavistock Court, Covent Garden.

FLORAL COMMISSION AGENCY.—

Gentlemen and others having a surplus quantity of choice CUT FLOWERS are requested to communicate with W. CALE, Floral Commission Agent, 4, Tavistock Row, Covent Garden, W.C.

Wanted, Large Palms and other Decorative and FINE FOLIAGE PLANTS.

THE GENERAL HORTICULTURAL COMPANY (John Wills), Limited, will be glad to PURCHASE or EXCHANGE other PLANTS for the above. The Company require large quantities of Plants from 3 to 20 feet high. Send full particulars to

Mr. JOHN WILLS, General Manager, Warwick House, 142—144, Regent Street, W.

Alexandra Palace, London, N.

(JONES AND BARBER, Lessees and Managers) WANTED, TO PURCHASE or HIRE, First class CUT FLOWER or EXHIBITION PLANTS, for the Saturday Horticultural Marts, now being held Weekly.

J. FORSYTH JOHNSON, Horticultural Director.

WANTED, ABIES MENZIESII, TAXODIUM SEMPERVIRENS, 18 to 24 inches; ABIES MORINDA, 12 to 18 inches. Full particulars to, JAMES DICKSON AND SONS, "Newton" Nurseries, Chester.

WANTED, CALADIUMS, ECHARIS, CROTONS, or AMARYLLIS BULBS. Any one having a Large Stock to Dispose of, or Overgrown Plants, can have them EXCHANGED for NEW and RARE PLANTS, PALMS, or ORCHIDS, by

J. H. LEV, Royal Nursery, Croydon.

WANTED, Two MAGNOLIA GRANDIFLORA (Exmouth variety), 18 to 24 feet high, healthy and well-furnished; must have been grown in pots, or very recently transplanted. Also two ERIOBOTRYA JAPONICA, size and condition as above. State cash price, including careful packing, to

WILLIAM BADMAN, Cemetery Nursery, Gravesend.

WANTED, a quantity of BRITISH BOX EDGING. Sample Yard and Price to

J. NOBLE, Nurseries, Lower Clapton, E.

WANTED, HOLLY, MADERIENSIS, good well-shaped pyramidal Plants. State size and price per dozen. Also CABBAGE PLANTS of sorts. State price to

WM. FELL AND CO., Nurserymen, Hexham.

WANTED, LARGE PALMS.—Any one having large specimens to dispose of can hear of a purchaser by applying to

Mr. W. L. MAITLAND, The Floral Gallery, Station Buildings, South Kensington, S.W.

WANTED, FRUITING CANES of the following VINES:—Bucklad Sweetwater, Foster's Seedling, Black Hamburg, Muscat of Alexandria, &c. State lowest trade price to

D. McFARLANE, The Gardens, Olive Mount, Wavertree, Liverpool.

WANTED, ASPARAGUS ROOTS, strong; PINUSAUSTRIACUS, 3 to 4 feet; RHODODENDRONS, hybrid and ponticum, well grown and good colour, 1 1/2 to 2 1/2 feet, also named varieties; Green Tree BOX; VIOLAS, to name, in variety; CARNATIONS, CLOVE and other border varieties. Send description or sample with lowest cash prices, to

R. H. VERTEGANS, Chad Valley Nurseries, Birmingham.

WANTED, GLOBE ARTICHOKEs, strong plants. Send sample and price to

E. COOLING, Mile Ash Nursery, Derby.

To Market Gardeners.

WANTED TO PURCHASE, SEAKALE PLANTS. State price per 1000 to GROWER, 16, Crown Court, Russell Street, W.C.

WANTED NOW, CAULIFLOWER PLANTS. State sort, quantity, and lowest price, Cash with Order, to

AUSTIN AND McASLAN, 16, Buchanan Street, Glasgow.

WANTED, AT ONCE, CABBAGE PLANTS, all kinds, in quantity. State prices, &c.

W. WISEMAN, Nurseryman, Nairn.

TO FARMERS and GROWERS.—Consignments of Cabbage, Savoy, Brussels Sprouts, Broccoli Sprouts, Turnip-tops, and Vegetables in general, wanted for Sale on Commission.—T. BROSNAN, Covent Garden Market, W.C.

SUTTONS' PRIZE GRASS SEEDS. Carriage Free.

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WILLIAMS' for NEW PLANTS of all descriptions, including those sent out by B. S. Williams and others worthy of cultivation.

WILLIAMS' for CAMELLIAS and AZALEAS. The largest assortment of Specimens and young plants, suitable for exhibition and other purposes in the Trade. The Collection of Azaleas and Camellias is exceptionally fine this year, being well set with buds.

WILLIAMS' for all kinds of WINTER FLOWERING PLANTS, including Cyclamen (for which these Nurseries have for many years been noted), Primulas, Ericas, Epacris, Tree Carnations, &c.

WILLIAMS' for ORCHIDS either for the Cool-house, Mexican, or East India-house, either in Specimens or small plants. The largest Collection of Specimens suitable for Exhibition in the Trade.

WILLIAMS' for CHEAP ORCHIDS.—B. S. W. having recently purchased several Collections of Orchids in this country, in addition to the large consignments he is constantly receiving from his collectors abroad, is thus enabled to offer a large assortment of these plants, at exceptionally low prices. Price List upon application.

WILLIAMS' for TREE and other FERNS, PALMS, FOLIAGE PLANTS, of all sizes. The largest stock in the country.

FOR PARTICULARS and PRICES of any of the above, see B. S. WILLIAMS' Illustrated CATALOGUES, post-free upon application.

B. S. WILLIAMS, NURSEYMAN and SEED MERCHANT, Victoria and Paradise Nurseries, Upper Holloway, London, N.

SUNNINGDALE NURSERY, Direction of, see Gardeners' Chronicle, March 19, 1881.

SEND for T. S. MAYOS' LIST (post-free) of HARDY SPRING BEDDING PLANTS, including Choice Show and Fancy Pansies, Violas, Double Daisies, &c. Highfield Nursery, Hereford.

GUNNERA SCABRA.—Fine strong Crowns, in 5-inch pots. Per dozen, 12s. RODGER, McLELLAND AND CO., 64, Hill Street, Newry.

Tricolor Bedding Geraniums. ALFRED FRYER offers a large stock of the best varieties. Priced LISTS post-free. ALFRED FRYER, The Nurseries, Chatteris, Cambridgeshire.

THIRTY-SIX ACHIMENES, Finest Sorts, for 10s.—Sent carriage free on receipt of cash. Longiflora alba, Mauve Queen, and ten other most beautiful new sorts; very large corms. J. H. LEY, Royal Nursery, Croydon.

Larch.—Larch. LARCH.—Fine 1-yr. 1-yr., 100,000 for £22, 50,000 for £11, for Cash on Delivery. W. WISEMAN, Nurseryman, Nairn.

HOLLYHOCKS.—Strong plants now ready. List of varieties and price upon application. L. WOODTHORPE, Glazenwood Nursery, Braintree.

JULES DE COCK, Ornamental Plant Nurseries, Ghent, Belgium, offers to the Trade:—AZALEA INDICA, all sizes, with buds; CAMELLIAS, best sorts, without buds, 1 to 1 1/2 foot high; ADIANTUM CUNEATUM (Maidenhair), 28s. per 100; CIBOTIUM PRINCEPS, and CYATHEA MEDULLARIS, 1s. each.

CABBAGE PLANTS.—200,000 Enfield Market, 3s. 6d. per 1000. JOHN TINDALL, Gardener, Heckington, Lincolnshire.

the shrub would succeed best at elevations of 6000 feet; but as the plantations were extended almost always down hill, it was soon discovered that the lower the elevation the more rapid was the growth of the plant and the larger the production of leaf, and in consequence almost all the gardens which have been made in recent years are below 4000 feet, and most of them in the Terai at the foot of the hills. Though the Terai gardens are probably the most profitable when well managed from the first, yet they are by no means so pleasant to live at as the hill gardens between 3000 and 5000 feet, on account of the great heat and the liability to fever, which, though not so bad as it used to be before a good deal of the forest was cleared and cultivated, is still the cause of much illness and many deaths, especially among the natives who are employed as labourers. These are nearly all Nepalese, who have immigrated in such large numbers since the planting commenced, that they now form by far the most numerous part of the population; the natives of Sikkim, who are Lepchas and Bhotas of Indo-Chinese race and character, having a dislike to steady work, such as that of a plantation. The abundance and cheapness of labour, as well as the healthier and cooler climate, and the quickness and facility of transport, are three great advantages possessed by Tea planters in Darjeeling over other districts, and now that the price of Tea has reached such a low point that it cannot be produced profitably except under the most favourable circumstances, the prospects of Darjeeling planters, though not perhaps brilliant, are far brighter than in Assam or Cachar. There are many obstacles in the way of the Darjeeling planter's great want, namely, to get his produce into consumption as he grows it, without any mixture of the Chinese rubbish which is drunk by the poorer classes in England under the name of Tea: but the present low prices, though very discouraging, will probably tend considerably to this result, and there is no doubt that few people, having once drunk pure Darjeeling Tea for a week or so, will go back willingly to the abominable stuff which passes for Tea at all places of public resort, and in the houses of many well-to-do people in England.

Cinchona bark is another product which has, during the last few years, become important in Darjeeling, for though the Government plantations at Rungbee and Mongpoo, as well as the large private one at Pomong, were for eight or ten years in an unprofitable and unproductive state, yet the rapid growth of the trees, wherever the climate and soil were suitable, together with the recent great increase in the price of bark, have caused such large returns in the last few years that the Government gardens have not only paid off their whole cost from the first with interest, but the Pomong company have paid 70 and 80 per cent. in two successive years, and have seen their shares rise to four times the price they stood at only three years ago. Whether Cinchona will continue as profitable as at present is a question which many would be glad to have answered, but though the demand for quinine is very much greater than the present supply; yet the large acreage which has been recently planted, especially in Ceylon, Southern India and Java, cannot fail to reduce the price materially when the South American war is over. Allowing, however, for a fall in value of bark to one-fourth its present price there will still remain a good, if not a large margin of profit, always supposing that the conditions of soil and climate are thoroughly favourable, and only such valuable species of Cinchona as have been proved to yield a good proportion of sulphates are planted.

Since I was last at Darjeeling (in 1876) a botanical garden has been opened on land presented by Mr. Lloyd for the purpose below the bazaar,

and which is placed under the management of Mr. Jaffrey, formerly of the Government Cinchona plantations. It is intended, I believe, to serve the purpose of a nursery and source of distribution for European plants and vegetables to residents in the district, as well as of a botanical garden, where as many of the native plants as can be grown at this elevation (about 6800 feet) will be brought together. A good deal has already been done in this direction, and the garden is nicely laid out on a piece of land which has many of its original forest trees still standing, but Mr. Jaffrey complains that owing to the vegetable mould which originally covered the surface of the soil having been washed away, forest plants and Ferns do not thrive so well as they would otherwise do. A large number of the finest native plants have already been brought together, and native collectors are constantly bringing in more, so that there will be no lack of materials from the lower and warmer valleys to fill the large conservatory which is now being erected, and which it is to be hoped will be turned to good account. Considering how easy it is to collect any seeds or plants in Sikkim through the Lepchas, whose knowledge of their native flora is remarkably correct, and the short time now necessary to send them home, it is surprising what a number of the finest plants and shrubs are still unknown in English gardens. Some of these, I am in hopes, I shall succeed in introducing this year, but many others await the search of the collector, and as an instance of how much really remains to be done even after so many good botanists have been at Darjeeling, I may say that I succeeded in getting two species of Lily, neither of which, so far as I know, had been found in Sikkim before. One of these is probably *L. oxypetalum*, only known previously from the North-west Himalaya, and the other may be *L. nepalense*, or some new form of the longiflorum group. Both are rare and local, as is *L. giganteum*, the only other true Lily yet known to occur in Sikkim.

One of the first trips I made from Darjeeling was to the Cinchona plantations at Mongpoo, where I found my good friend Mr. Gammie in high spirits at his success both in the growth of the bark and manufacture of the sulphate by a new process he has lately discovered, and which will probably supersede the system now in use. The road to Mongpoo is one of the most beautiful and interesting in the district. After crossing the Jellapahar hill it turns to the east at Jorbungalow, and follows the north side of Sinchal for three or four miles at 7000 feet elevation, through a fine forest of Oak, Magnolia, and Chestnut, which, thanks to the Forest Department, has not been hacked, burnt, and destroyed in the way that forests always are when not strictly protected. This forest is full of beautiful shrubs, plants, Ferns, and Orchids, and extends from the top of Sinchal, 8500 feet, down to about 5000 feet, the level to which cultivation usually extends in Sikkim. Among the most remarkable of its floral treasures are the splendid *Magnolia Campbellii*, whose great crimson blossoms appear in March before the leaves; *Hydrangeas* of 20 feet and upwards in height; *Daphne papyrifera*, which is in full flower in January, and might prove hardy in mild parts of England. Most of the Oak and Magnolia trees are covered at this elevation with quantities of moss, Ferns, and Orchids, and festooned with many species of climbing plants; but one of the most remarkable features of the arboreal vegetation is the number of epiphytical *Vacciniums* and other plants, which form large woody rootstocks on the branches of the trees, and live entirely on the moisture and such vegetable mould as is formed on the decaying boughs. *H. J. E.*

(To be continued.)

New Garden Plants.

COLLABIUM SIMPLEX, *n. sp.**

A fine-leaf plant, a kind of a rival to certain *Dichorisantras*. Short terete dirty purple bulbs are placed upon a strong slender bent rhizome, which appears later on to become green, as the older bulbs are of that colour. The oblong acute wavy leaves are light green, with very numerous dark green blotches. The strong peduncle has its own short bulbous base, with what appears to be a bud in the axil of a scale. At end it bears a raceme of flowers in the way of those of a *Eulophia*, surpassing those of *C. chrysoglossum* (once *vesicatum*), but not equalling those of *C. (chrysoglossum, Bl., once) ornatum*. The sepals and petals are greenish-yellow, with blotches, which are brown outside, purple inside. Lip white, column white, with purple at the base, bent as in a *Mormodes* or *Camarotis obtusa*. It comes from Borneo, and was sent a while ago, first by Messrs. J. Veitch & Sons, then by Mr. W. Bull, both of whom I have to thank for very satisfactory living plants. *H. G. Rehb. f.*

BOLLEA PALLENS, *n. sp.*†

For a long while we had neither new *Bolleas* nor new *Pescatoreas*. Here is a new *Bollea*, but it is only a botanical beauty. The sepals and petals are of lightest purple-mauve with greenish-yellow lips, and the most basilar inner border of the lateral sepals is cinnamon-coloured, the lower halves of those organs being lightest yellow. The callus of the lip is orange with some brownish-purple paint, the lip blade is light ochre. The column has at its base numerous cinnamon dots on a sulphur area, when separated by a sulphur angulate zone the greater part is brownish and mauve-purple. The narrow column with median blunt side angles separates it well from all known *Bolleas* and brings it nearer *Pescatorea* than any *Bollea*. It flowered in September in Mr. J. Day's glorious collection. *H. G. Rehb. f.*

EPIDENDRUM (OSMOPHYTUM) STANGEANUM, *n. sp.*‡

A striking botanical curiosity. A tiny plant, 5-6 inches high, with rigid semiterete canaliculate blunt leaves, and a small few-flowered shorter inflorescence of very small green flowers, like those of *Epidendrum diffusum*. It is one of the rare instances in this vast genus wherein the sepals and ovary are covered with short hairs. It comes from Panama, and was introduced by Mr. F. F. Stange, once the Orchid grower of the late Consul Schiller, now one of our most industrious nurserymen, and who is very famous for growing at his place, Wandsbecker Chaussee, 211, Hamburg, the most curious Ferns, leaf plants, and last, not least, *Disa grandiflora*, in any quantity, just as if it were *Asparagus*. The plant was kindly given to the Hamburg Botanic Garden, and brought afresh to flower by Mr. Donat. *H. G. Rehb. f.*

CYPRIPEDIUM GRANDE, *n. hybr.*

This is, indeed, a grand thing. It was raised by Mr. Seden at the Royal Exotic Nursery of Messrs. J. Veitch & Sons, from a cross between *Cypripedium Roezlii* and *C. caudatum*. Since it is so exceedingly vigorous and quick growing (the fertilisation took place in 1875), there can be no doubt it is descended, not from genuine *caudatum*, but from the so-called *caudatum roseum* (*Warszewiczii*, *Rehb. f.*), which is so easily understood by its far stronger peduncle, far larger shining flowers, with a very dark, much wider lip, and its dark broad leaves. Our novelty has even broader and larger leaves still. The peduncle is very strong, and though when first flowering it bore only one flower, there can be no doubt of its improvement next year. We might call the grand flower an enlarged edition of *C. Hartwegii*, had it not both the sepals of oblong lanceolate shape, surpassing the lip—a feature by which it differs from all the group of *Hartwegii*. The colours are those of the species of that group. There are few hybrids which have given me so much pleasure as this, since I expect it must develop by-and-by into an even more superb thing, justifying its name. *H. G. Rehb. f.*

* *Collabium simplex*, *n. sp.*—Foliis in bulbo tertiusculo brevi geminis cuneato oblongis acutis undulatis; pedunculo laterali basi bulboso tumido pauca vaginato apice racemoso; racemo laxiusculo; bracteis linearilanceis ovaria pedicellata subaequantibus; sepalis linearilanceis, lateralisibus in mentum, tertiusculo ovarii dimidium aequans descendenteibus; tepalis lanceis acuminatis, labello ab ungue brevi subito dilatato, trifido, laciniis lateralisibus semifalcatis, lacinia mediana elliptica serrulata, carinis teratis per discum, carina mediana obsolete, carinis lateralisibus in labelli basi anguliferis. Borneo. *H. G. Rehb. f.*

† *Bollea pallens*, *n. sp.*—Sepalis oblongis obtuse acutis, lateralisibus summa basi interna involutis; tepalis angustioribus, labelli callo magno carinis obscuris 17 antice valde obtusis seu evanescentibus in parte abrupta lamina subtriangula omaino marginibus involuta; columna angustiuscula utrinque obtusangula disco interno pilosula. Sepala et tepala aequo pallidissime purpureo-violacea. Sepala lateralia ima basi involuta atropurpurea, dimidio inferiori externe pallidissima flavida. Labellum flavidum callo aurantiaco. Columna basi flava maculis multis cinnameis, zona sulphurea angulata separata a partibus reliquis brunneo violaceo lavatis. Col. cl. J. Day. *H. G. Rehb. f.*

‡ *Epidendrum (Osmophytum) Stangeanum*, *n. sp.*—Pseudo-