



THE

GARDENERS' CHRONICLE

A Weekly Illustrated Journal

OF

HORTICULTURE AND ALLIED SUBJECTS.

(ESTABLISHED IN 1841.)

VOL. IV.—THIRD SERIES.

JULY TO DECEMBER, 1888.

LONDON :

41, WELLINGTON STREET, COVENT GARDEN, W.C.

1888.



The GARDENERS' CHRONICLE

ESTABLISHED 1841.
No. 2489.

No. 89.—VOL. IV. {THIRD SERIES}

SATURDAY, SEPTEMBER 8, 1888.

{Regt. as a Newspaper. PRICE 3d. POST-FREE, 3½d.

CONTENTS.

Araucaria graveolens bloom	271	Narcissus bulbs, lifting, &c.	263
Articulata, autumn bloom on	264	Niell Prize, the	273
Bentley, Professor, presentation to	272	Nursery notes:—	
Bouvardia President Cleveland	274	Bergholt, Colchester	267
Bull garden, the	263	Obituary:—	
Calabrian Pine	267	Markham, Charles, Mr.	278
Carnations Admiral Curzon and S. Payne	264	Orchid notes	266
Centauria anrea	274	Pentstemon rotundifolius	264
Cultural memoranda	267	Pink, the forcing	264
Cypresses, deciduous, large	273	Pinus pyrenaica	267
Cypripedium concolor	274	Plants and their culture	269
Eucharis amazonica	264	Potatos and Mangels, disease of	274
Flower garden	269	Rainfall at Llandilo	274
Foreign correspondence:—		Rose garden, work in the	265
Nancy	273	Scotland	276
Fruit culture	270	St. Albans, fruit growers' conference at	261
Fruit growers, Conference of, at St. Albans	261	Societies:—	
at Dankeld	277	Bath Floral Fête	276
Fruits under glass	269	Basingstoke	276
Gardening appointments	282	Birmingham Mutual Improvement	272
Gardeners' Orphan Fund	272	Bishop's Stortford	273
Gentiana asclepiadea	274	Fleetwood	272
Iris dichotoma	263	Harpenden	274
Kitchen garden	269	National Chrysanthemum	273
Lælia xanthina	264	National Footpath Preservation	273
Lagerströmia indica	263	Royal Caledonian	275
Læstrea	262	Scottish Horticultural	273
Lilies and Poppies	272	Wigtonshire	272
Lincolnshire, Potato crop in	274	Trinidad Botanic Garden	272
		Tomatos on south walls	274
		Vegetables, exhibiting	274

ILLUSTRATIONS.

Araucaria graveolens (vera)	271
Pentstemon rotundifolius	265
Pinus pyrenaica	268

Now ready, in cloth, 11s. 6d.
THE GARDENERS' CHRONICLE,
Vol. III., Third Series, JAN. to JUNE, 1888.
W. RICHARDS, 41, Wellington Street, Strand, W.C.

NATIONAL CHRYSANTHEMUM SOCIETY.
ROYAL AQUARIUM, WESTMINSTER.—Early CHRYSANTHEMUM and DAHLIA EXHIBITION, SEPTEMBER 12 and 13. Schedules free on application. The Floral Committee will meet September 12, October 10, 24; November 7, 21; December 5, and January 9.

WILLIAM HOLMES, Hon. Sec.,
Frampton Park Nurseries, Hackney, E.
PLEASE NOTE.—Intending Members should join at once, and so secure the full advantages for the current season—viz., admission to 4 Grand Exhibitions, 7 Floral Meetings, and the usual privileges. Ordinary Member, 5s., and Fellows, 21s. per annum.

GLASGOW AND WEST OF SCOTLAND HORTICULTURAL SOCIETY'S GRAND AUTUMN FLOWER SHOW will be held (by special arrangement) within the International Exhibition, Glasgow, on WEDNESDAY, THURSDAY, and FRIDAY, September 12, 13, and 14, 1888. Admission to Exhibition and Flower Show, 1s. The magnificent Bands of the Exhibition will perform.
FRANC GIBB DOUGALL,
Secretary to the Glasgow and West of Scotland Horticultural Society.

The Committee have agreed to give the following Special Prizes, open to all, not included in the Schedule:—For 10 Best Specimens of Foliage and Flowering Plants—6 Foliage and 4 in Flower—1st Prize, £10; 2nd, £5; and 3rd, £4.
Competitors will use Form in the Prize Schedule, which must be sent to Mr. F. G. DOUGALL, 167, Canning Street, Glasgow, not later than September 7.

HARTLAND'S ORIGINAL LITTLE BOOK OF DAFFODILS and CHRISTMAS ROSES for 1888 is now ready. Price 1s. 6d.; gratis with orders above 40s. Please send for copy, and if you do not like the work as a reference, its cost will be refunded. Bulbs never finer, and Gertrude Hartland's additional drawings superb.—WM. BAYLOR HARTLAND, Seedsman, F.R.H.S., 24, Patrick Street, Cork.

SUTTON'S HYACINTHS
FOR POTS AND GLASSES.

SUTTON'S NARCISSI
FOR POT CULTURE.

SUTTON'S TULIPS
FOR POT CULTURE.

FOR LOWEST PRICES
and full Instructions, see

SUTTON'S BULB CATALOGUE:
beautifully Illustrated with numerous Engravings and a handsome Coloured Plate, representing the leading Bulbous Flowers, and containing accurate descriptions of the choicest Narcissus, together with particulars of the best varieties of Hyacinths, Tulips, &c., for bedding. Now Ready: Post-free to intending Customers.
SUTTON AND SONS, The Queen's Seedsman, READING.

STRAWBERRY RUNNERS.—Strong and well rooted. Rifleman, the best Market variety in cultivation; also Elton Pine. Price 10s. per 1000, cash.
J. B. YOUNG, Bridge of Allan.

ORCHIDS.—Amateurs having Large Specimens to DISPOSE OF in EXCHANGE, are requested to state value expected and sorts desired, to
W. H. (who has a large stock to select from), *Gardeners' Chronicle* Office, 41, Wellington Street, Strand, W.C.

WANTED, GERANIUM CUTTINGS.—
Sophie Dumaresque, Louisa Smith, Mrs. Pollock, MacMahon, Chelsea Gem, Lass o' Gowrie, West Brighton Gem. State Price, or would EXCHANGE with the best Covent Garden strain CINERARIAS fit for potting.
Apply, FOREMAN, Calcot Gardens, Reading, Berks.

WANTED, CUTTINGS OF GERANIUMS.—
Mrs. Pollock, Sophia Dumaresque, Henry Jacoby, and Lady Emily. Samples and price, with quantity to offer, to WEBB AND BRAND (late Cheater), Nurseries, Saffron Walden.

WANTED, good Specimen CYATHIEA DEALBATA. Particulars as to size and price to IRELAND and THOMSON, Nurserymen, Edinburgh.

WANTED, STRAWBERRY RUNNERS, strong, President and James Veitch. TROPÆOLUM Ball of Fire, Canariense improved.
H. CANNELL and SONS, Swanley, Kent.

PEACHES, PEACHES, MELONS, &c.—
Highest Market Prices guaranteed for really good and well-packed fruit of the above.—HENRY RIDES (late Wise & Rides), Fruit and Flower Salesman, Covent Garden, W.C.

Floral and Fruit Commission Agency.
W. CALE is open to RECEIVE CONSIGNMENTS of choice FLOWERS and FRUIT. Empties supplied.—10, Burleigh Street, Strand; and Flower Market, Covent Garden, W.C.

SQUELCH AND BARNHAM, North Row, Covent Garden, W.C., are OPEN TO DISPOSE OF any quantity of MUSCATS and BLACK GRAPES, TOMATOS, CUCUMBERS, FRENCH BEANS, STRAWBERRIES, CHOICE FLOWERS, &c. Highest Market Prices obtained. Account Sales daily; Cheques weekly or as preferred by Sender. Baskets and Labels supplied. References given.

MESSRS. GREGORY AND EVANS, NURSERYMEN, Sidcup, and 285, 286, 287, 288, Flower Market, Covent Garden, W.C., are open to RECEIVE CONSIGNMENTS of Choice CUT FLOWERS in any quantity for their Commission Department. Boxes and Labels supplied. Telegraph Address—"COMMISSION, SIDCUP."

Surplus Cut Flowers.
HOOPER AND CO. (Limited) RECEIVE and DISPOSE OF any quantity of above at best Market Prices. Boxes, &c., supplied.—Address, Commission Department, HOOPER AND CO. (Limited), Covent Garden, W.C.

S. HILL, Jun., COMMISSION AGENT, RECEIVES FOR DISPOSAL any quantity of Choice CUT FLOWERS. Market Prices Returned Weekly. Empties supplied.—21, Charlotte Street, Fitzroy Square, and Covent Garden Market, W.C.

Erratum.
MESSRS. PROTHEROE AND MORRIS' SALE at UPPER EDMONTON. See *Gardeners' Chronicle* last week, p. 230.
For H. Bellay read H. B. MAY.

Azaleas, Camellias, Orchids, Palms, &c.
AUG. VAN GEERT, Continental Nurseries, Ghent, Belgium. Special LIST now ready, and will be sent post-free on application to
WILLIAM DENMAN, 7, Catherine Street, Covent Garden, W.C.
See large Advertisement, August 25, page 205.

SPECIAL OFFER OF FERNS.—Pteris tremula, P. cretica, P. cretica cristata, P. serrulata cristata compacta.—CINERARIAS and PRIMULAS in best Covent Garden strains. All in thumbs, fit for immediate potting. Also Pteris tremula, good stuff, in 48's, to offer in quantity.
Prices per 100 or 1000 on application.
R. FENGELLY,
Dyson's Lane, Upper Edmonton.

Bulbs of Finest Quality only.
BARR'S BULB CATALOGUE for 1888, Now Ready. Sent free on application.
Contains full Descriptive List of the best Hyacinths, Tulips, and other Dutch Bulbs in cultivation, also an interesting descriptive List of Cape and Californian Bulbs and Tubers, including many beautiful rarities.
BARR AND SON, 12 and 13, King Street, Covent Garden, W.C.

BOUVDARIAS.—Special Offer.—Best Market sorts, very strong, in 60 pots, 20s. and 15s. per 100.
ADANTUM CUNEATUM, strong, in 60 pots, 12s. per 100.
PRIMULA, Double White, 25s. per 100.
ROBERTS BROS., East Grinstead.

BOX'S JUBILEE BEGONIAS.—Thousands of outdoor Begonias now in full Flower at Tooting Park Nursery (close to Balham Station). The best display in the Trade, and cheapest rates.
JOHN R. BOX (for ten years J. Laing's sole partner), Tooting, Balham, and Croydon.

To the Seed Trade.
NEW ZEALAND COCKSFOOT (DACTYLIS GLOMERATA).
HORNE, SON, and BRYANT, 59, Mark Lane, London, E.C., are First-hand Sellers of the New Crop, 14 to 18 lb. per Bushel. Samples and Quotations on application.

MR. DODWELL'S GRAND CARNATIONS.
—The finest grown. 5000 Unblomed Seedlings, warranted of the highest parentage; unrivalled whether for bedding or forcing for spring flowering. 3s. 6d. per doz.; 21s. per 100. Special terms for quantities. Particulars on application.
The Cottage, Stanley Road, Oxford.

Now in Full Bloom.
BEGONIAS.—Awarded Four Gold Medals. Unequaled as a floral display. Visitors are cordially invited; free admission. Frequent trains from the City and West End to Catford Bridge and Forest Hill Stations.
JOHN LAING AND SONS, Stanstead Park, Forest Hill, S.E.

Kent—The Garden of England.
STRAWBERRIES true to Name.
GEO. BUNYARD AND CO'S NEW LIST, embracing, Noble, Waterloo, &c., and the 30 best kinds, may now be had on application. Splendid Plants in little pots, and Runners. The Old Nurseries, Maidstone.

DICKSON'S IMPROVED MUSHROOM SPAWN, most superior, now reduced to 5s. per bushel of 14 cakes. Circular with Cultural Notes and List of Testimonials post-free on application.
DICKSONS (Limited), The Royal Seed Warehouse, CHESTER.

PASTUPLANTA, the best Artificial Manure. It enriches the soil with the fertilisers drawn from it by plants; no unpleasant smell; admirably adapted for all pot plants. In bags: 112 lb., 19s.; 56 lb., 11s. 3d.; 28 lb., 6s. 9d.; 14 lb., 4s.; 7 lb., 2s. 3d. In tins, 1s. each. Sole Manufacturers, PHILIP HARRIS and CO. (Limited), 9, Bull Ring, Birmingham.

W. H. LASCELLES AND CO., HORTICULTURAL BUILDERS, 121, BUNHILL ROW, LONDON, E.C. Plans and Estimates Free. See large Advertisement, September 1, page 233.

shallow and in the most sunny positions. Delicate sorts should be replanted in fresh soil every year, in July or August. Burnt earth and sea sand are valuable for dressing the soil in which Narcissus are grown, and on wet soils the bulbs should be covered with sand when planted. *F. W. Burbidge.*

NEW OR NOTEWORTHY PLANTS.

PENTSTEMON ROTUNDFOLIUS (*A. Gray*), (FIG. 31) *n. sp.**

This very distinct species is entirely new to science, and is certainly one of the most important novelties of 1888. Its introduction to our gardens is due to the untiring efforts of Mr. W. Thompson, of Ipswich, whose name has long been identified with the plants of Texas, Mexico, and other North American States. The present plant has flowered with such profusion this year, in spite of the very uncongenial weather, and the flowers withal are so pretty and graceful, that it has only to be known to become a general favourite. Its nearest ally, among those in cultivation at least, is *P. centranthifolius* (Chelone) of the *Botanical Register*, vol. xx, p. 1739. The latter was sent from California by David Douglas, and is described by Bentham in the *Proceedings of the Royal Horticultural Society*, vol. i., as *Chelone*. It is perfectly hardy, growing well in any good garden soil if fully exposed to the sun. It differs abundantly from the present species in longish ovate lanceolate Valerian-like leaves, and glabrous flowers. In *P. rotundifolius* (see fig. 31) the leaves are coriaceous, orbiculate, entire, the lower ones on longish petioles, those on the stem clasping, the whole conspicuously glaucous. The flower-stem, 2 feet in height, is very graceful, producing abundance of medium-sized brick-red flowers, with pale yellowish throat, anthers slightly exerted, the same length as the style. It has flowered at Kew all through the summer and autumn months. The plants were collected by Mr. Pringle in the State of Chihuahua, Mexico, in the summer and autumn of 1886, and described by Dr. Gray in the *Proceedings of the American Academy of Arts and Sciences*, vol. xxii, p. 307, 1887. In a note attached to the description, Mr. Pringle says he collected it at Mapula, Potrero, and other mountains near Chihuahua, hanging from seams of cliffs, long enduring, apparently flowering for most of the year. The plant may be seen at the present time in the new alpine-house at Kew. *D. Dewar.*

CATLEYA HARRISONIANA (*Bateman*) VAR. REGNIERIAN, *n. var.*

The rather short sepals and petals show such a wonderfully clear, warm purple tint as I never saw in the affinity. The lip's side laciniae are light purple outside, yellow in the mid line. The inside is light yellow, with darker keels and a light purple border to the side-laciniae. The mid-lacinia is very deeply plaited and minutely crenulate, and the whole lacinia stands upright and hides the top of the column. It is whitish-yellow, with an orange callous basilar disc, and washed with purple outside. Column white, with a greenish base. This lovely thing was kindly sent me by M. A. Regnier, Fontenay-sous-Bois, Seine, and whose name it may justly bear. *H. G. Rehb. f.*

LÆLIA XANTHINA (*Lindl.*) AORAPHIS, *n. var.*

With this species have always appeared specimens without any purple markings on the lip. It has also been sent me lately through my kind old corre-

* *Pentstemon rotundifolius*, *n. sp.*—Species insignis (a grege *P. centranthifolii*?), glaberrimus, glaucus; caulibus basi lignosa aperte-ramosis paniculato-plurifloris; foliis crasso-coriaceis orbiculatis integerrimis (majoribus sesquipollicaribus), imis in petiolum subalatum contractis, cæteris arcte sessilibus ramulibus parvis, floralibus minutis subcordatis; pedunculis pedicellisque gracilibus; sepalis ovalibus lin. 2 longis; corolla minuti pollicari tubiformi apice subæqualiter 5 lobis, lobis lato-ovalibus (lin. 2 longis), fauce genitalibusque glabris; antheris post debiscenstiam explanatis; capsulis lato-ovatis lin. 2-3 longis pedicello arcte ecurvato pendulis. *Asa Gray*, Bot. Contributions, issued March 4, 1887. *Proc. Amer. Acad. Sc.*, vol. xxii.

spondent, Mr. B. S. Williams, from Mr. Wischnussen of Wood Green, N., who desired for a distinct variety a separate name, as is the custom now-a-days. The first-named gentleman appears to be very successful in growing this tribe. I shall have the pleasure to write shortly about a Cattleyoid sent by the same gentleman. *H. G. Rehb. f.*

CYPRIPEDIUM CONCOLOR (*Parish*), VAR. SULPHURINUM, *n. var.*

This is stated to be green-leaved. It is a lovely elegant variety, with light sulphur-coloured flowers, without the least trace of a spot. There are only two darker yellow eyes on the disc of the triangular, heart-shaped, very acute staminode. The petals are bent down with much elegance. It was kindly sent me by Messrs. Hugh Low & Co., Clapton. *H. G. Rehb. f.*

CYPRIPEDIUM PAGEANUM, *n. hyb.* (*Gall.*)

This is stated to be the result of crossing *Cypripedium superbians* (Veitchianum) and *C. Hookeri* (Hookeri of many gardeners). The leaves are nearly glaucous, with dark reticulations. The red hairy peduncle is one-flowered. Bract half as long as the ovary, spatheaceous, acute, reddish at the base. Upper sepal elliptical acute, with twenty-three green veins, a few of which are reddish at the apex. Lower sepals much smaller, not equalling half the lip, oblong acute, with green veins, two of which are red at the apex. Petals deflexed, ligulate acute, ciliate, with green veins on a whitish ground that turns in the light to a reddish colour in the anterior third. There are numerous Indian-purple spots on the basilar and median portions. Lip in the way of that of *Cypripedium superbians*, but narrower, two-horned at the mouth of the sac, dark brown, ochre in the mid-line. Staminode transverse, with two inflexed horns and a small apiculus light green, with the usual dark reticulation in the middle.

It was raised by Mr. Page, an ardent orchidist, at Bongival, near Paris, and whose name it duly bears. I had it through the kindness of Messrs. Seeger & Tropp. *H. G. Rehb. f.*

FLORISTS' FLOWERS.

AUTUMN BLOOM OF AURICULAS.

I THINK it not unlikely there will be, as one of the results of the moist cool June and July, a good deal of autumn bloom from Auriculas. The plants appear to have made, under the favourable condition of coolness, a continuous summer growth, and the crowns are plump, green, and full of life. I am keeping my own plants pretty dry at the roots, at the same time not allowing them to flag in any way, as I think this is disastrous in its effects. I am potting later than usual, in the hope thus to check autumn blooming. Seedlings have grown vigorously—the strongest are beginning to bloom. By doing this in the autumn it enables one to throw out all the inferior types. Anything promising should be marked, and the test of spring flowering applied. I find that the autumn promise and character is occasionally reversed when the spring bloom is put on. But a second year's flowering should be tried before anything of promise is finally rejected. *R. D.*

THE PINK.

The laced varieties are not grown quite so much as they used to be a quarter of a century ago, when Pink shows were popular. It is a distinct border plant. There are not many raisers of seedlings now, but Messrs. Hooper & Co., of Bath, have raised some very distinct varieties, of which they sent blooms a few weeks ago. One of them had flowers as large as those of a Carnation. They were well laced and distinct in colour, and this is saying a good deal, for Pinks have but little variety amongst them. The young plants propagated from pipings put in about the end of June should now be well rooted, and they ought to be planted out in the beds or borders where

they are to flower as soon as the ground can be prepared for them and they are strong enough. If the plants are small 9 inches apart is a good distance; large plants may be allowed a foot each way. It is a good plan to have the plants well established before the winter, as they will throw up stronger flower-stems the following season. They like rich soil, not too heavy. In fact, they are not so fastidious as their near ally, the Carnation, and will succeed admirably in any ordinary garden soil. The plants are strong enough to plant out about the middle or end of September.

THE FORCING PINK.

Varieties of this section are more readily propagated than those of the laced type. I think very highly of the pure white variety with prettily-fringed flowers, grown by the acre in the fields round about here to supply cut flowers for the London market. The plants are torn into pieces by the hand, and planted in rows in a rough-and-ready manner on ploughed ground. This variety has a very sweet Clove-like scent. For forcing and garden culture I like the more delicately-constituted Lady Blanche. It has pure white well-formed flowers, and is admirably adapted for forcing purposes. I have not yet seen any of the purple-coloured varieties to surpass Lord Lyons. The flowers are rich in colour, and, like Lady Blanche, they have long pods that do not burst with the opening flowers. To obtain good-flowering clumps, the cuttings of these should be put, during the months of April and May, in a forcing-house or hothed. When well rooted, they may be planted out a foot or more apart in the open garden, and, if they are intended for forcing purposes, must be planted out in light rich soil to increase in size and vigour during the summer and early autumn months. About the first week in October they may be lifted, with plenty of roots attached, and be potted into 6 or 7-inch pots, according to the vigour of the plants. *J. Douglas, Ilford.*

CARNATIONS ADMIRAL CURZON AND SARAH PAYNE.

It is sometimes said, but not always with reason, that the continual propagation of any one variety of florists' flowers has an inevitable tendency to wear it out and cause deterioration. This has frequently been stated of the Carnation, and because the florist grows his plants in pots in cold frames during the winter rather than expose them to all the rigours of the winter in the open air, he is accused of making a hothouse plant of it, and inevitable weakness and decay are asserted as taking place. This statement is always made without due consideration. At the exhibition of the National Carnation and Picotee Society, held in the Drill Hall in connection with the meeting of the Royal Horticultural Society on July 24, two flowers were exhibited—one, Eason's Admiral Curzon, scarlet bizarre, sent out forty-three years ago; and Ward's Sarah Payne, pink and purple bizarre, sent out forty-one years ago. If the statement made at the commencement of this paper is correct these two varieties, debilitated beyond measure by hard propagation during this long period, ought to have disappeared from cultivation years ago. But they are grown and shown to-day as vigorously and of as fine quality as they were over forty years ago.

Admiral Curzon is still pretty well at the head of its class, and although its supremacy may be challenged by Dodwell's Fred, Dodwell's George, Barlow's Robert Houlgrave, and Dodwell's Robert Lord, it will yet be grown and exhibited for years to come. In the second edition of his book on the Carnation Mr. Dodwell states that "It is pleasant to record the Admiral is yet alive to us and worthy of admiration, as in the days of its earliest youth. Wherever Carnations are grown and shown there is Curzon—always to the front, indeed, quite seven times in ten the best flower of the exhibition. What a beautifully shaped petal—smooth, gently cupped, and of good substance. Its colours are rich, bright, well delineated, and strongly contrasted. Its outline is as unbroken as any flower I have ever cultivated, and its form good. It is of medium size and a good