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W. H. JESSEL, JR., ET AL

Plant Pat. 3,183

CHRYSANTHEMUM PLANT

Filed July 27, 1970



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1

3,183
CHRYSANTHEMUM PLANT
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U.S. Cl. Plt.—79

1 Claim

The present invention comprises a new and distinct variety of pompon chrysanthemum plant which is a sport of a light pink seedling identified for breeding purposes as YB 63340-1.

The new variety is similar in many respects to Belair, a commercial variety of Yoder Brothers, Inc., Barberton, Ohio, for which application for U.S. Letters Patent is concurrently being made. The Belair variety is a darker pink mutation of the above identified seedling, and both Belair and the present variety have the same characteristics of:

- (1) Growth habit.
- (2) Nine week response.
- (3) Flower production.
- (4) Lateral flowering down the stem.
- (5) Flower form.

The new variety is distinguished from Belair by the following characteristics, with the comparison being based on growth under identical culture and conditions:

(1) A unique orange-bronze color previously unavailable in a pompon chrysanthemum.

(2) Light orange-bronze color.

The new variety is distinguished from Bronzechip, an unpatented but commercially well established variety of Yoder Brothers, Inc., by the following characteristics:

(1) A unique orange-bronze color previously unavailable in a pompon chrysanthemum.

(2) Increased flower production per stem, with 20-25% more of the stems producing 5-7 or more flowers per spray than Bronzechip.

(3) More flowers produced from laterals down the stem rather than on a similar plane at the top of the spray like Bronzechip.

(4) A more open spray formation than Bronzechip.

(5) Produces more shoots or breaks from a pinch, averaging 2-3 more shoots per plant than Bronzechip. This trait is even more prevalent during high temperature periods when Bronzechip is inclined to exhibit non-breaking tendencies.

(6) Average fresh weight per stem is 15-20% heavier than Bronzechip.

(7) Foliage less serrated than Bronzechip.

(8) A more uniform response in all periods, combined with an earlier response of approximately 5-7 days in summer and early fall (high temperature periods) than Bronzechip.

The new variety was discovered upon examination of a flowering block of the parent variety.

The new variety has been asexually reproduced by cuttings at Barberton, Ohio, and has been found to retain its distinctive characteristics through successive propagations.

My new variety when grown in the vicinity of Salinas, Calif.; Fort Myers, Fla. and Barberton, Ohio has a response period of approximately 9 weeks. It will be understood that the response time and blooming period may

2

vary significantly with varying environmental conditions such as temperature, light intensity and day length. Suggested flowering in most of the United States is from April through November and for southern Florida, from December through April.

The following detailed response information and subsequent data is based on observations made of the new variety in a greenhouse in Barberton, Ohio. The response period is approximately 9 weeks, with response being accelerated to 8½ weeks under spring conditions and slowed to 9½ weeks in mid-summer and early fall under high temperature conditions. By way of comparison, Bronzechip will generally respond in approximately 9½ weeks, will accelerate its response to 8½ weeks under spring conditions, but will slow its response to 10 weeks under summer and fall high temperature conditions.

The accompanying drawing shows the color and form of my new variety, with the colors being as true as possible with color illustrations of this type.

The following is a detailed description of my new variety, with the color references being to the Munsell Color Chart, 1963 edition, and comparisons made with the variety Bronzechip.

Botanical classification: *Chrysanthemum morifolium*.

	Bronze Belair	Bronzechip
Bloom:		
Size.....	2½"	2½"
Fully expanded.....	3"	3"
Borne.....	Terminal cluster of 8-12 on elongated pedicels according to culture.	3"
Stems.....	Elongated pedicels 6"-10" in length branching from main stem.	3"
Form.....	Decorative.....	3"
Permanence.....	7-10 days.....	3"
Color:		
Center of flower..	Orange to light bronze, 2.5YR5/10 to 10YR8/10.	Light bronze, 2.5Y7/6.
Base of petals...	Bronze, 2.5Y5/10.....	Yellow bronze, 2.5Y8/6.
Inside of petals..	Bronze to light bronze, 2.5Y5R/10 to 10YR8/10.	Yellow bronze, 2.5Y8/6 to light yellow 2.5Y8.5/4.
Reverse of petals.	2.5Y8.5/6 to light yellow.	Pale yellow, 2.5Y9/4.
Tonality from a distance.	Orange bronze to light bronze.	Bronze to light bronze.
Discoloration....	Light bronze, 10YR8/10.	2.5Y8.5/4, light yellow.

Petals. — Texture — smooth; appearance — slightly open at base, keeled at mid-point; form—tapers to a blunt point; arrangement—composite, whorled on a single receptacle; persistence—shatter resistant; fragrance—typical chrysanthemum.

Reproductive organs.—Stamens, anthers—none to 20 more or less depending on culture; pollen—none to scant; arrangement—center of flower if present; styles—present in both ray and disc florets; length—short; ovaries—at base of petals attached to receptacle.

Plant. — Form — herbaceous; growth — upright; height—36" to 42" depending on culture.

	Bronze Belair	Bronzechip
Foliage:		
Top side.....	Green, 7.5GY3/4	Green, 7.5GY3/4
Size.....	7"-9" long, 4"-5" wide.	6 1/2"-8 1/2" long, 4"-5" wide.
Quantity.....	Numerous.	Numerous.
Shape.....	Palmate.	Palmate.
Texture.....	Coarse.	Coarse.
Ribs and veins.....	Prominent.	Prominent.
Edge.....	Deeply indented.	Deeply indented.
Serration.....	Slight.	Very slight.
Underside.....	Light green, 5GY4/4	Light green, 7.5GY4/4, darker than Bronze Belair.

Stipules..... Prominent at base of petiole. Rudimentary at base of petiole.

The following detailed response information and observations are based on observations made of the new variety in a greenhouse in Barber, Ohio. The response period is approximately 9 weeks with response being accelerated to 8 1/2 weeks under spring conditions and slowed to 9 1/2 weeks in mid-summer and early fall under high temperature conditions. By way of comparison, Bronzechip will generally respond in approximately 9 1/2 weeks, will accelerate its response to 8 1/2 weeks under spring conditions, but will slow its response to 10 weeks under summer and fall high temperature conditions.

The accompanying drawing shows the color and form of my new variety, with the color being as true as possible with color illustrations of this type. The following is a detailed description of my new variety, with the color references being to the Annual Color Chart, 1933 edition, and comparisons made with the variety Bronzechip.

Botanical classification: *Chrysanthemum morifolium*.

Color	Reference	Comparison
Light bronze, 2.5YR 6/6	Light bronze, 2.5YR 6/6	Lighter than Bronzechip
Yellow bronze, 2.5YR 7/6	Yellow bronze, 2.5YR 7/6	Lighter than Bronzechip
Yellow, 2.5YR 8/6	Yellow, 2.5YR 8/6	Lighter than Bronzechip
Light yellow, 2.5YR 9/6	Light yellow, 2.5YR 9/6	Lighter than Bronzechip
Yellow, 2.5YR 10/6	Yellow, 2.5YR 10/6	Lighter than Bronzechip
Light yellow, 2.5YR 11/6	Light yellow, 2.5YR 11/6	Lighter than Bronzechip
Yellow, 2.5YR 12/6	Yellow, 2.5YR 12/6	Lighter than Bronzechip
Light yellow, 2.5YR 13/6	Light yellow, 2.5YR 13/6	Lighter than Bronzechip
Yellow, 2.5YR 14/6	Yellow, 2.5YR 14/6	Lighter than Bronzechip
Light yellow, 2.5YR 15/6	Light yellow, 2.5YR 15/6	Lighter than Bronzechip
Yellow, 2.5YR 16/6	Yellow, 2.5YR 16/6	Lighter than Bronzechip
Light yellow, 2.5YR 17/6	Light yellow, 2.5YR 17/6	Lighter than Bronzechip
Yellow, 2.5YR 18/6	Yellow, 2.5YR 18/6	Lighter than Bronzechip
Light yellow, 2.5YR 19/6	Light yellow, 2.5YR 19/6	Lighter than Bronzechip
Yellow, 2.5YR 20/6	Yellow, 2.5YR 20/6	Lighter than Bronzechip
Light yellow, 2.5YR 21/6	Light yellow, 2.5YR 21/6	Lighter than Bronzechip
Yellow, 2.5YR 22/6	Yellow, 2.5YR 22/6	Lighter than Bronzechip
Light yellow, 2.5YR 23/6	Light yellow, 2.5YR 23/6	Lighter than Bronzechip
Yellow, 2.5YR 24/6	Yellow, 2.5YR 24/6	Lighter than Bronzechip
Light yellow, 2.5YR 25/6	Light yellow, 2.5YR 25/6	Lighter than Bronzechip
Yellow, 2.5YR 26/6	Yellow, 2.5YR 26/6	Lighter than Bronzechip
Light yellow, 2.5YR 27/6	Light yellow, 2.5YR 27/6	Lighter than Bronzechip
Yellow, 2.5YR 28/6	Yellow, 2.5YR 28/6	Lighter than Bronzechip
Light yellow, 2.5YR 29/6	Light yellow, 2.5YR 29/6	Lighter than Bronzechip
Yellow, 2.5YR 30/6	Yellow, 2.5YR 30/6	Lighter than Bronzechip

Yield — Form — habitous growth — upright; height — 18" to 42", depending on culture.

Flower — Form — habitous growth — upright; length — short ovaries — at base of petals attached to receptacle.

Style — present in both ray and disc flowers; accent arrangement — center of flower if present; more or less depending on culture; pollen — none to 20 and fragrance — (typical chrysanthemum).

Stipules — present; arrangement — either sessile on a single receptacle; persistence — either resist to a plant point arrangement — composite, whorled or open at base, fused at mid-point; form — lobes to 1/2 inch; texture — smooth; appearance — slightly

I claim:

1. A new and distinct variety of pompon chrysanthemum characterized particularly as to novelty by a unique orange-bronze color, greater flower production per stem, an open terminal spray, lateral flowering down the stem, excellent breaking action on pinched crops during high temperature periods, and a uniform response at all periods, with an earlier response during high temperature periods.

No references cited.

ROBERT E. BAGWILL, Primary Examiner

3,183
 CLERK OF DISTRICT COURT
 U.S. District Court for the Southern District of Ohio
 Cincinnati, Ohio
 Filed July 23, 1933
 Int. Cl. No. 2700

The present invention comprises a new and distinct variety of pompon chrysanthemum plant which is a sport of a light pink seedling identified for breeding purposes as YB 6340-1.

The new variety is similar in many respects to Belair, a commercial variety of Yoder Brothers, Inc., Barber, Ohio, for which application for U.S. Patent is currently being made. The Belair variety is a darker pink than the above identified seedling, and both Belair and the present variety have the same characteristics of:

- (1) Growth habit.
- (2) Nine week response.
- (3) Flower production.
- (4) Lateral flowering down the stem.
- (5) Flower form.

The new variety is distinguished from Belair by the following characteristics, with the comparison being based on growth under identical culture and conditions:

- (1) A unique orange-bronze color previously unavailable in a pompon chrysanthemum.
 - (2) Light orange-bronze color.
- The new variety is distinguished from Bronzechip, an unpublished but commercially well established variety of Yoder Brothers, Inc., by the following characteristics:
- (1) A unique orange-bronze color previously unavailable in a pompon chrysanthemum.
 - (2) Increased flower production per stem, with 20-25% more of the stems producing 2-7 or more flowers per spray than Bronzechip.
 - (3) More flowers produced from laterals down the stem rather than on a similar plane at the top of the spray like Bronzechip.
 - (4) A more open spray formation than Bronzechip.
 - (5) Produces more shoots or breaks from a pinch, averaging 2-3 more shoots per plant than Bronzechip. This trait is even more prevalent during high temperature periods when Bronzechip is inclined to exhibit non-breaking tendencies.
 - (6) Average fresh weight per stem is 15-20% heavier than Bronzechip.
 - (7) Foliage less serrated than Bronzechip.
 - (8) A more uniform response in all periods, combined with an earlier response of approximately 3-7 days in summer and early fall (high temperature periods) than Bronzechip.

The new variety was discovered upon examination of a flowering block of the parent variety.

The new variety has been asexually reproduced by cuttings at Barber, Ohio, and has been found to retain its distinctive characteristics through successive generations.

My new variety when grown in the vicinity of Barber, Ohio, for Myers, Elmer and Barber, Ohio, has a response period of approximately 9 weeks. It will be understood that the response time and flowering period may

vary in other localities.

It is to be understood that the above description is intended to illustrate the invention and is not to be construed as limiting the scope of the invention.

What I claim as my invention is set forth in the claims hereinafter.

Very truly yours,
 Robert E. Bagwill, Primary Examiner

Witness my hand and the seal of said District Court at Cincinnati, Ohio, this 23rd day of July, 1933.

ROBERT E. BAGWILL, Primary Examiner

UNITED STATES PATENT OFFICE
CERTIFICATE OF CORRECTION

Patent No. PP 3,183 Dated May 23, 1972

Inventor(s) Walter H. Jessel, Jr. and William E. Duffett

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In column 1, delete lines 28-29 and substitute therefor:
--1. One fourth (1/4") to one half inch (1/2") smaller flower than Belair.--

In column 2, line 32 opposite Borne; line 34 opposite Stems; line 36 opposite Form and line 37 opposite Permanence delete 3" under Bronzechip in each line.

In column 2, approximately line 42, adjacent the heading "Inside of petals" and under the heading "Bronze Belair", change "2.5Y5R/10" to --2.5YR5/10--.

In column 2, approximately line 47, change "Discoloration" to --Discoloration--.

Signed and sealed this 23rd day of October 1973.

(SEAL)
Attest:

EDWARD M. FLETCHER, JR.
Attesting Officer

RENE D. TEGTMEYER
Acting Commissioner of Patents

Dedication

PP. 3,183.—*Walter H. Jessel, Jr.*, Doylestown, and *William E. Duffett*, Akron, Ohio, CHRYSANTHEMUM PLANT. Patent dated May 23, 1972. Dedication filed Feb. 6, 1975, by the assignee, *Yoder Brothers, Inc.* Hereby dedicates to the Public the entire remaining term of said patent. [*Official Gazette July 1, 1975.*]