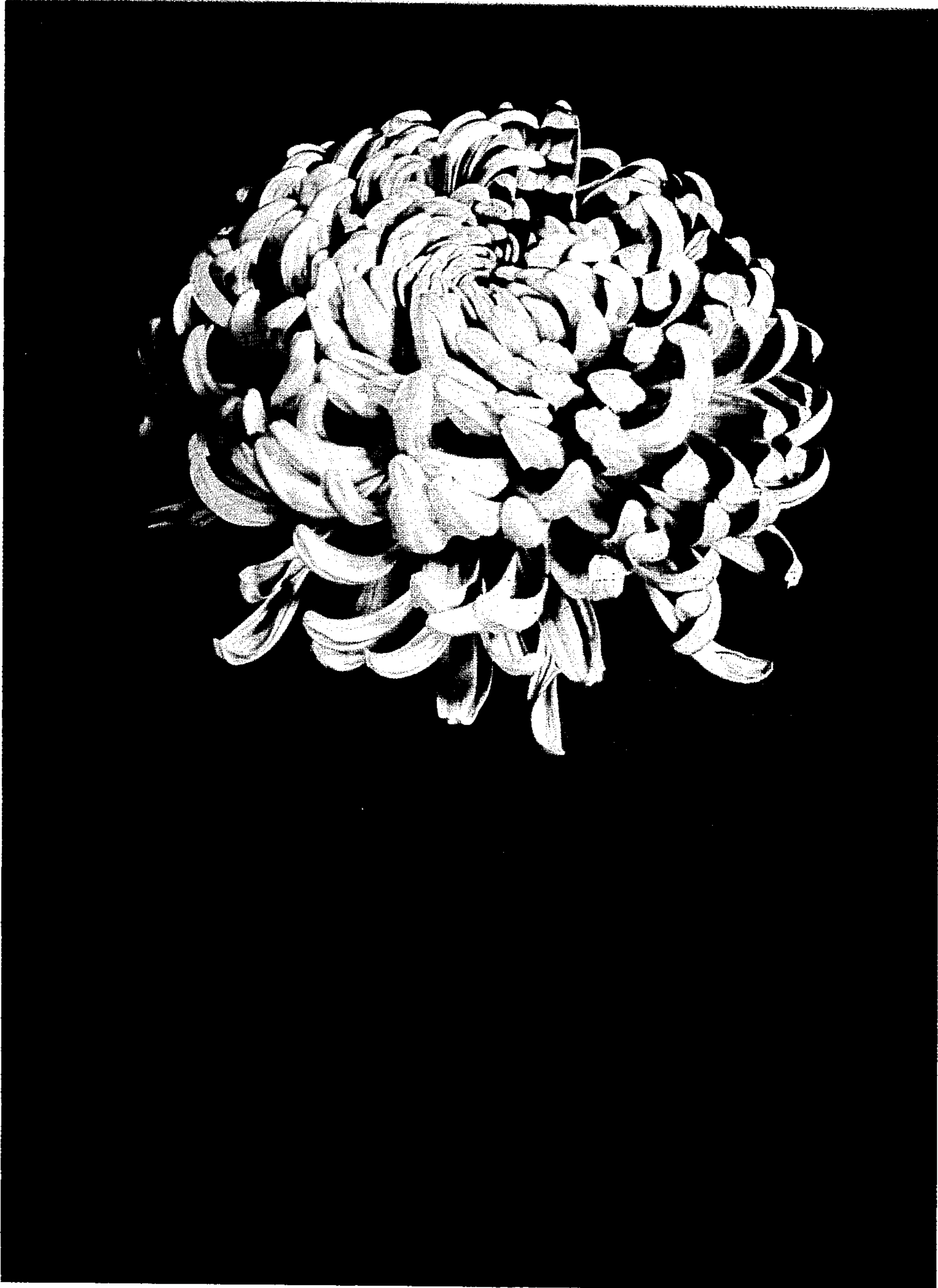


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W. H. JESSEL, JR., ET AL Plant Pat. 3,481

CHRYSANTHEMUM PLANT

Filed June 5, 1972



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3,481

CHRYSANTHEMUM PLANT

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1 Claim

The present invention comprises a new and distinct cul-
tivar of chrysanthemum plant known by the varietal name
Gambit which is a seedling of #621003-1 × #3296.
Both parents are unpatented and are identified for breeding
purposes by the above breeding numbers.

This new cultivar offers the following characteristic
features to standard chrysanthemum producers:

- (1) It has good vigor and a strong stem.
- (2) It has a medium large to large incurved flower.
- (3) It has a bright bronze color. Many bronze stand-
ards presently available lack brightness and luster in their
color.

(4) It is suitable for winter production in most areas of
the United States. The list of suitable cultivars for this
flowering period is limited at present.

(5) In California, besides its winter performance, it
provides a bronze standard for spring. Detroit News, the
most popular bronze standard in California, lacks vigor,
uniform response, and good flower size during this period
and does not begin to perform well until late spring and
early summer.

(6) It ships well if harvested in the 1/3 to 1/2 open
stage, and unlike many standards, it opens quite well in
approximately three days with only clorox added to the
water.

(7) It is very low temperature tolerant and will initiate
and develop buds at 56°–58° F.

Other distinguishing features about this cultivar are:

- (1) It will shatter
 - (a) if allowed to open beyond the three-fourths stage
before cutting,
 - (b) if flowered in high temperature periods. Under high
temperatures the petals develop a longitudinal petal roll
and become tubular. In this form, shattering is most
severe.

(2) It develops other flower form changes depending
on environmental factors, primarily light and temperature.
In Salinas, Calif., the flower develops a high crown because
of the high light and cool temperature environment this
area provides.

Under environmental conditions in Barberton, Ohio, it
develops a high crown in late fall and early spring flower-
ings but if flowered under high temperatures, a flatter
crown is developed. Also, under the low light conditions
of December-January flowerings, the form of the flower
is loose or more reflexed.

The new cultivar was selected from the progeny of the
designated cross and when asexually reproduced by cut-
tings at Barberton, Ohio, has been found to retain its dis-
tinctive characteristics through successive propagations.

Our new cultivar when grown in the vicinity of Barber-
ton, Ohio, responds as an early 9 week in late fall; a late
9 in midwinter, and a late 8 in early spring. In Salinas,
Calif., it responds as a late 8 week cultivar from late fall
through spring. The following detailed description is based

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on observations made of the new cultivar in a greenhouse
in Barberton, Ohio. The response time, blooming period,
color and total vigor may vary significantly with varying
environmental conditions such as temperature, day length,
and light intensity. Suggested flowering in the northern
and western United States is from October through May;
coastal California, October through May, in the south-
eastern and southwestern United States, December
through March. The new cultivar is not recommended for
outdoor culture in Florida.

The accompanying drawing shows the unique char-
acteristics of our new cultivar, the color being as nearly
true as possible with color illustrations of this type.

In the description which follows, color references are
made to the Munsell Color Book, 1963 edition.

Botanical Classification: *Chrysanthemum morifolium*

Bloom:

Size.—5 3/4"

Fully expanded.—6 1/4"

Borne.—Singly on disbudded plants

Stems.—Strong

Form.—Incurve

Permanence.—10–12 days

Color (Munsell)—Center of flower: golden bronze,
2.5Y7/10 over yellow, 5Y8/10. Base of petals:
yellow green, 2.5GY7/8. Inside of petals: bronze,
1.25YR4/12 over yellow, 5Y8/10. Reverse of
petals: golden bronze, 2.5Y7/10 over yellow,
5Y8/10. Tonality from a distance: golden bronze.
Discoloration: orange bronze, 5YR5/10 over yel-
low, 5Y8/10.

Petals:

Texture.—Smooth

Appearance and form.—Tubular at base, opening
slowly to a deep ridged keel, tapering to a hooded
tip

Arrangement.—Composite, whorled on a single re-
ceptacle

Persistence.—Resist shatter

Fragrance.—Typical chrysanthemum

Reproductive organs:

Stamen, anthers.—0–20

Pollen.—None to very scant

Arrangement.—Clustered in center of flower, if
present

Styles.—Present both ray and disc florets

Length.—Short

Ovaries.—At the base of petal attached to receptacle

Plant:

Form.—Herbaceous

Growth.—Upright

Height.—Approximately 42" when given 5–6 long
day weeks, and 14–15 weeks crop time as defined
in the timetables of Yoder Brothers, Inc. for mid-
winter flowerings at Barberton, Ohio. Approxi-
mately 42" when given 3–4 long day weeks, and
12–13 week crop time as defined in the timetables
of Yoder Brothers, Inc. for late fall and early
spring flowerings at Barberton, Ohio.

Spread.—None when grown single stem to slight
when grown pinched

Foliage:

Top side.—Very dark green, 7.5GY2/4

Size.—6 1/4" long, 3 1/2" wide

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Quantity.—Numerous*Shape*.—Spatulate lobed*Texture*.—Coarse*Ribs and veins*.—Prominent*Edge*.—Deeply indented*Serration*.—Finely serrated*Under side*.—Medium green, 7.5GY4/4*Stipules*.—Moderately prominent.

We claim:

1. A new and distinct cultivar of chrysanthemum characterized particularly as to its uniqueness by its good vigor and strong stem; medium large to large incurved flower;

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its bright bronze, lustrous flower color; its suitability for winter production in most areas of the United States, and by its ability to be grown as a bronze standard for spring in California; by its excellent shipping qualities if harvested in the $\frac{1}{3}$ to $\frac{1}{2}$ open stage, opening quite well in approximately three days with only clorox added to the water, and by its very low temperature tolerance, with the new cultivar initiating and developing buds at 56°–58° F.

No references cited.

ROBERT E. BAGWILL, Primary Examiner