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Jacobsen

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[54] POINSETTIA PLANT 'PJ 3112'
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[52] U.S. Cl. Plt./86.4
[58] Field of Search Plt. 86.4

[56] References Cited
PUBLICATIONS
Sigurbjornsson, B., "Chapter 8 Induced Mutations"
Crop Breeding 1983, American Society of Agronomy
and Crop Science Society of America, pp. 153-176.
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[57] ABSTRACT
Poinsettia 'PJ 3112' is a new cultivar, distinguished by
bright orange-red bracts and intense dark green foliage
with self-branching characteristics. 'PJ 3112' is a color
sport of the dark red bracted 'Lilo' (U.S. Plant Pat. No.
6,694) with the same early flowering response and cul-
tural requirements. The new plant produces a very
desirable branched flowering pot plant. The new plant
is resistant to epinasty after being confined to shipping
containers and recovers rapidly if the plant does be-
come epinastic. The post-production foliage and bract
retention is excellent even under low light intensities in
the consumer's home.

1 Drawing Sheet

1

BACKGROUND OF THE NEW PLANT

This new poinsettia cultivar originated as an induced
orange-red bracted sport of 'Lilo' (U.S. Plant Pat. No.
6,694) in my greenhouse in Skibby, Denmark. It was
induced through irradiation of vegetative plants with
2500 rads of gamma radiation, randomly applied to the
whole plant. A single plant from the irradiated group
exhibited orange-red flower bracts. The mutant was
characterized by its self-branching, orange-red flower
bracts and dark green foliage, traits which help distin-
guish it from other poinsettia cultivars, and seem to
make it a desirable plant for commercial greenhouse
production. No other similar plants were observed from
the irradiation nor were any other changes in the plant
observed which would appear to have commercial
merit. 'PJ 3112' differed from its parent 'Lilo' in having
bright, orange-red bracts as compared to the dark red
bracts of 'Lilo', but otherwise had characteristics simi-
lar to the parent.
After selection 'PJ 3112' was vegetatively repro-
duced from stem cuttings for test purposes in Encinitas,
Calif. Tip cuttings were made from the new plant over
3-5 generations. By subjecting clones of this plant to
successive generations of vegetative propagation, it was
demonstrated that the distinctive characteristics of 'PJ
3112' held true from generation to generation. The
observed characteristics were stable and not apparently
due to chemical treatment, cultural conditions or dis-
ease. Reversion was not observed thus indicating that
the characteristics of the new plant were genetically
determined.

DESCRIPTION OF THE PHOTOGRAPHS

Poinsettia 'PJ 3112' is illustrated in the accompanying
color photographs. The upper photo is a side view of 3
single stem plants per pot in full flower. The lower
photo is a top view of the same plants showing flower
and bract formation.

DESCRIPTION OF THE PLANT

The following is a detailed description of this new
poinsettia as observed in Encinitas, Calif., U.S.A. dur-
ing December 1992. Observations were recorded from

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flowering plants, grown as 3 single stem plants per pot.
The pot was 14 cm. in diameter and 11 cm. in height.
Color designations are compared to the 1986 edition of
R.H.S. Colour Chart, first published in 1966 by The
Royal Horticultural Society, London, England.

THE PLANT

Origin: Sport of 'Lilo' (U.S. Plant Pat. No. 6,694), in-
duced through irradiation of vegetative plants with
2500 rads of gamma radiation.
Classification:
Botanic.—*Euphorbia pulcherrima* Willd.
Common name.—Poinsettia.
Cultivar name.—'PJ 3112'.
Form: Shrub.
Height: Medium.
Growth habit: As a single stemmed plant, upright and
vigorous with self-branching side shoots. The appli-
cation of a chemical growth retardant may be needed
to restrict height for commercial pot plant produc-
tion. I observed 3 unpinched plants in a pot with an
overall height of 52 cm. and an overall width of 53
cm. The bract diameter of individual flowers were 33
cm.
Branching: Axillary branches will develop and termi-
nate in a flower without pinching. However, it is
usually desirable to pinch 'PJ 3112' before flower
induction and remove all terminal dominance. Then,
all axillary branches will develop uniformly and at a
faster rate.
Growth rate: Rooting of stem cutting occurs in 12-18
days under intermittent mist.
Flowering: The plant will flower in about eight to nine
weeks under continuous long night conditions and
night temperatures of about 16-18 degrees C. Like its
parent, ('Lilo'), 'PJ 3112' will be in full bloom in late
November in the northern hemisphere under natural
daylength conditions.
Foliage: At flowering, plants were observed with about
22 uniformly dark green leaves, one leaf per node.
The leaves were of medium size, leaf blades typically

being 12-14 cm. long and 10-11 cm. wide with leaf petioles 7-8 cm. long.

Leaf shape.—Typical leaves are generally ovate with obtuse bases and acuminate tips. Leaf margins are entire or slightly lobed with 1 or 2 indentations on each side of the leaf blade.

Color.—Upper side — Dark green, darker than RHS 147A. Under side — Green, near RHS 147B.

Bracts: Generally there were 30-33 orange-red bracts of various sizes subtending the cyathia. The primary bracts are large, have blades typically 14-15 cm. long and 10-11 cm. wide with petioles 4 cm. long.

Shape.—Primary bracts are ovate with acute bases and acuminate tips and weakly lobed with 1 small indentation on either side of the bract. Secondary bracts are elliptic and have entire margins.

Color.—Upper side — Bright orange-red, 42B (having a brightness that may give a perception of 45A-B in certain light conditions). Under side — Orange-red, between RHS 45C-D.

Flowers: Generally, 33 cyathia (flowers) were present when the plant was in full bloom. Each cyanthium is about 7 mm long and 6 mm wide, green in color, and

fringed with red at the distal end. A yellow nectar cup protrudes from the side of each cyathium. The flower pedicel is also green and about 3 mm in length. The stamens protruding from the cyathia are dark red. The anthers are bifurcate; the pollen is yellow and copious. The stigmas are dark red and trifucate. Cyathia retention was about three weeks beyond the time the flower was fully mature.

Nectar exudate.—Present, abundant.

Seed formation.—Self-incompatible.

Fertility.—Not observed.

Post production: 'PJ 3112' is resistant to epinasty after being confined to shipping containers and recovers rapidly if the plant does become epinastic. The foliage and bract retention is excellent even under low light intensities in the consumer's home.

What is claimed is:

1. A new and distinct Poinsettia cultivar, substantially as herein shown and described, distinguished by its intense dark green foliage, bright orange-red bracts, self branching and good leaf and bract retention in the consumer environment.

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