

May 14, 1974

E. R. NIKLAS ET AL

Plant Pat. 3,549

CHRYSANTHEMUM PLANT

Filed Jan. 2, 1973

2 Sheets-Sheet 1



May 14, 1974

E. R. NIKLAS ET AL

Plant Pat. 3,549

CHRYSANTHEMUM PLANT

Filed Jan. 2. 1973

2 Sheets-Sheet 2



1

3,549

CHRYSANTHEMUM PLANT

Edmund R. Niklas, 12059 SE. Valley View Terrace,
Clackamas, Oreg. 97015, and Walter H. Jessel, Jr.,
Doylestown, and William E. Duffett, Akron, Ohio; said
Jessel and said Duffett assignors to said Niklas

Filed Jan. 2, 1973, Ser. No. 320,112

Int. Cl. A01h 5/00

U.S. Cl. Plt.—76

1 Claim

The present invention comprises a new and distinct
cultivar of chrysanthemum plant known by the varietal
name Royal Trophy, which is a sport of the unpatented
cultivar known in the United States as Illini Trophy.

The new cultivar is similar in many respects to Illini
Trophy, having the same characteristics of:

1. Year round period of value.
2. Responsiveness to growth regulators, particularly
B-9.

3. Recommended short treatment. Like Illini Trophy,
medium treatment may be used if B-9 is not applied until
late in the development of the crop.

4. Foliage form.

5. Growth habit.

The new cultivar is distinguished from Illini Trophy
by the following characteristics when grown under com-
parable conditions:

1. A more intense deep lavender color.
2. A flower approximately $\frac{1}{4}$ " smaller in diameter.
3. Approximately 2 to 5 days earlier response, with the
response also being more uniform from plant to plant
within a multiplant container.
4. A darker green foliage.

2

5. Foliage smaller in length and width.

6. Approximately 2" to 3" shorter growth habit.

7. A flatter decorative flower form which has less ten-
dency than Illini Trophy to develop reflexing of the petals
and a higher crowned flower.

The new cultivar was discovered under cultivation in a
greenhouse in Clackamas, Oregon, and has been asexually
reproduced by cuttings at Barberton, Ohio. The new cul-
tivar has been found to retain its distinctive characteristics
through successive propagations.

The new cultivar when grown in the vicinity of Barber-
ton, Ohio, has a response period of approximately 9
weeks, and the following detailed description is based 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. It can be flowered year round in all
areas of the United States.

The accompanying drawings comprise color photo-
graphs of the new cultivar in pot form. Sheet 1 was taken
in early October under relatively high light conditions,
with the flower color being somewhat lighter and the flower
form more open. Sheet 2 comprises a photograph taken
in February and shows a somewhat darker flower color
and tighter flower form.

In the following description, color references are made
to the Munsell Limit Color Cascade Chart, 1972 edition,
and comparisons are made with the parent cultivar Illini
Trophy to develop reflexing of the petals and a higher
for the new cultivar, the same value or description applies
as well to the comparison cultivar.

Botanical classification: *Chrysanthemum morifolium*

	Royal Trophy	Illini Trophy
Bloom:		
Size.....	4 $\frac{3}{4}$ "	5"
Fully expanded.....	5 $\frac{1}{4}$ "	5 $\frac{1}{2}$ "
Borne.....	Singly on disbudded stems.	
Stems.....	Strong	
Form.....	Flat decorative	Reflexed decorative.
Permanence.....	10-12 days	
Color:		
Center of flower.....	Dark lavender, 45-9 over light lavender, 46-2	Lavender, 46-6.
Base of petals.....	Yellow-green, 22-3	Yellow-green, 22-3.
Inside of petals.....	Dark lavender, 46-7 over lavender, 45-5	Lavender 46-6 over light lavender, 45-2.
Reverse of petals.....	Lavender, 45-5 over light lavender, 46-1	Lavender, 45-3 over light lavender, 45-1.
Tonality from a distance.....	Purple	Lavender.
Discoloration.....	Dark lavender, 46-7 over lavender, 45-5	Lavender, 46-4 over light lavender, 45-2.
Petals:		
Texture.....	Smooth	
Appearance and form.....	Open at base, flat shallow keel tapering to blunt petal tip with slight reverse roll of petal edges.	
Arrangement.....	Composite, whorled on a single receptacle	
Persistence.....	Resist shatter	
Fragrance.....	Typical chrysanthemum	
Reproductive organs:		
Stamen, anthers.....	0-5	
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.....	Semi-upright	
Height.....	Approximately 11"-12" when grown in a 5-cutting, 6" pot, given 9 week short treatment as defined in the pot mum timetable of Yoder Brothers, Inc., Barberton, Ohio, for the various seasons of the year.	Approximately 13"-15" when grown in a 5-cutting, 6" pot, given 9 week short treat- ment as defined in the pot mum timetables of Yoder Brothers, Inc., Barberton, Ohio, for the various seasons of the year.
Spread.....	Approximately 9" when grown in a 5-cutting, 6" pot, given 9 week short treatment as defined in the pot mum timetables of Yoder Brothers, Inc., Barberton, Ohio, for the various seasons of the year.	
Foliage:		
Top side.....	Dark green, 17-15	Green, 18-15.
Size.....	4 $\frac{1}{2}$ " long, 3" wide	5" long, 3 $\frac{1}{2}$ " wide.
Quantity.....	Numerous	
Shape.....	Spatulate lobed	
Texture.....	Coarse	
Ribs and veins.....	Prominent	
Edge.....	Moderately indented	
Serration.....	Coarse	
Under side.....	Medium green, 19-14	Light green, 20-14.
Stipules.....	Prominent	

We claim:

1. A new and distinct cultivar of chrysanthemum characterized particularly as to its uniqueness when compared to the parent cultivar Illini Trophy by its more intense deep lavender color; flowers approximately $\frac{1}{4}$ " smaller in diameter; darker green foliage which is smaller in length and width; approximately 2" to 3" shorter growth habit, approximately 2 to 5 days earlier response which is also

more uniform from plant to plant, and by its flatter decorative flower form which has less tendency than Illini Trophy to develop reflexing of the petals and a higher crowned flower.

No references cited.

ROBERT E. BAGWILL, Primary Examiner