

[54] AFRICAN VIOLET PLANT NAMED  
IMPROVED IOWA

[76] Inventor: Reinhold Holtkamp, Sr., Werther  
Strasse 112, D4294 Isselburg, Fed.  
Rep. of Germany

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Primary Examiner—Robert E. Bagwill

Attorney, Agent, or Firm—Foley & Lardner, Schwartz,  
Jeffery, Schwaab, Mack, Blumenthal & Evans

[57] ABSTRACT

A new and distinct cultivar of African violet named Improved Iowa characterized by its single violet-shaped, intensive blue flowers; strong, upright flower stems that curve slightly toward the center to form a compact bouquet above the leaves; medium green, oval to heart-shaped leaves; profuse flowering, vigorous and compact growth habit, flowering 10–11 weeks after potting, and its long lasting and non-dropping flowers.

1 Drawing Sheet

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The present invention comprises a new and distinct cultivar of African violet plant, botanically known as *Saintpaulia ionantha*, and hereinafter referred to by the cultivar name Improved Iowa.

The new cultivar was referred to during the breeding and selection process by the designation D 19/3 and is a product of a planned breeding program. The basic objective of the breeding program was to create a new African violet cultivar improving certain characteristics of the cultivar Iowa, disclosed in my U.S. Plant Pat. No. 4,500. The new cultivar was originated from a cross made by me in the controlled breeding program in Haffen, Federal Republic of Germany. The female, or seed parent was a cultivar designated 26 C. The male, or pollen parent was a cultivar designated 305/61.

Improved Iowa was discovered and selected by me as a flowering plant within the progeny of the stated cross in a controlled environment in Haffen, West Germany. Asexual reproduction of the new cultivar by leaf cuttings, as performed by me at Haffen, West Germany, has demonstrated that the combination of characteristics as herein disclosed for the new cultivar are firmly fixed and retained through successive generations of asexual reproduction.

Improved Iowa has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in environment such as temperature, light intensity and day length. The following observations, measurements and values describe the new cultivar as grown in a 10 cm pot in Haffen, West Germany and Nashville, Tenn. under greenhouse conditions which closely approximate those generally used in commercial practice.

The following traits have been repeatedly observed and are determined to be basic characteristics of Improved Iowa, which in combination distinguish this African violet as a new and distinct cultivar.

- (1) Strong, upright flower stems curving slightly toward the center.
- (2) Single, violet-shaped intensive blue flowers.
- (3) Each plant carries 6–7 and more upright flower stems, each of which carries 5–7 and more flowers.
- (4) Long lasting, non-dropping flowers.
- (5) Vigorous and compact grower.
- (6) Plant saleable 10 to 11 weeks after potting.
- (7) Seed capsules push slightly through.

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(8) Oval to heart-shaped, medium green leaves.

(9) After maturity the flowers dry off, and remain on the peduncle without becoming infected by botrytis.

The new cultivar is most similar to, and was specifically intended to improve upon the characteristics of, my previously patented cultivar Iowa. In comparison to Iowa, the new cultivar is principally distinguished by its larger and more intensive blue flowers, shorter peduncles which produce a more compact growth habit, and by its increased resistance to mildew.

The accompanying color photographic drawing shows a typical specimen plant of the new cultivar. The colors appearing in the photograph are as true as possible with color illustrations of this type.

In the following description, color references are made to The Royal Horticultural Society Colour Chart (R.H.S.), except where general colors of ordinary significance are referred to. Color values were taken under natural sunlight conditions at approximately 1 p.m. in Nashville, Tenn.

Botanical Classification: *Saintpaulia ionantha*, Ramat., c.v. Improved Iowa.

Parentage:

Male parent.—305/61.

Female parent.—26 C.

Propagation: The new cultivar holds its distinguishing characteristics through successive propagations by leaf cuttings.

Plant: From 9 cm to 11 cm tall when grown in pots, and approximately 22–26 cm in diameter when fully grown.

Leaves.—General form: Oval to heart-shaped Diameter: 60–70 mm. Texture: Velvety. Aspect: Hairy, slightly shiny. Veins: Upperside: well visible; underside: very well pronounced, light green, shiny. Color (upperside): Yellow-green Group 147 A. Color (underside): Greyed-green Group 194 C. Petiole: Strong upright, purplish red, hairy.

Flowers.—Buds: Ball-shaped 7–8 mm just before opening, purple. Sepals: Five (5). Color: Brownish green. Calyx: Shape: Funnel-shaped. Aspect: Spear-shaped, hairy. Peduncle: Character: Strong upright, hairy. Color: Purplish green. Individual flowers: Size: 40–45 mm. Shape: Sin-



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gle violet-shaped (3 large, 2 small petals). Color (upperside): Violet-Blue Group 89 B. Under cooler temperatures and more intensive lighting, the blue tends to intensify. Color (underside): Violet-Blue Group 89 C to D. Borne: Each flower stem carries 5-7 and more flowers on strong, upright peduncle that are free standing above the leaves, thereby forming a compact bouquet. Flowering habit: Flowers 10-11 weeks after potting.

*Reproductive organs.*—Stamens: Two (2). Anthers: 2 composed of 4 anther cells, seed capsule pushes slightly through. Filaments: Yellowish green with purple on edge, 4-5 mm long. Pollen Color: Yellow Group 7 A. Styles: 7 mm long, purplish blue, base of ovary light green and hairy.

*Roots.*—Normally developed, white when young, turning slightly brownish when older.

Disease resistance: Good.

General observations: Improved Iowa is a very attractive, vigorous and compact grower with medium

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green, oval to heart-shaped leaves. A tight bouquet of flowers free standing above the leaves develops after approximately 10-11 weeks. Each of the 6-7 and more strong flower stems carries 5-7 and more single violet-shaped, intensive blue flowers contrasting nicely with the bright yellow anthers. Occasionally, 1-2 additional small petals may develop. The flowers are long-lasting and non-dropping.

I claim:

1. A new and distinct cultivar of African violet named Improved Iowa, as described and illustrated, and particularly characterized by its single violet-shaped, intensive blue flowers; strong, upright flower stems that curve slightly toward the center to form a compact bouquet above the leaves; medium green, oval to heart-shaped leaves; profuse flowering, vigorous and compact growth habit, flowering 10-11 weeks after potting, and its long lasting and non-dropping flowers.

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**U.S. Patent**

**Jan. 30, 1990**

**Plant 7,132**

