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(12) **United States Plant Patent**
Jones

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(54) ***IPOMOEA* PLANT NAMED 'ISGDP01-1'**

(50) Latin Name: ***Ipomoea batatas***
Varietal Denomination: **ISGDP01-1**

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(51) **Int. Cl.**

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A01H 5/12	(2018.01)
A01H 6/00	(2018.01)

(52) **U.S. Cl.**
USPC **Plt./258**
CPC ***A01H 6/00*** (2018.05)

(58) **Field of Classification Search**
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CPC A01H 5/02; A01H 5/06; A01H 5/12
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct *Ipomoea batatas* cultivar named 'ISGDP01-1' is disclosed, characterized by dark greyed-purple palmate shaped foliage. Plants have a semi-compact, mounding habit and produce many lateral branches, without pinching or chemical growth regulators. The new cultivar is an *Ipomoea batatas*, typically suited for ornamental container and garden use.

2 Drawing Sheets

Latin name of the genus and species: *Ipomoea batatas.*
Variety denomination: 'ISGDP01-1'.

BACKGROUND OF THE INVENTION

The new variety originated as a chance discovery by the inventor, Steve Jones. The variety was discovered as a naturally occurring whole plant mutation from an unnamed, unpatented proprietary variety of *Ipomoea batatas*. The new variety was discovered in August 2018 at a commercial greenhouse in Santa Paula, Calif.

After selecting and isolating the new cultivar, asexual reproduction of the new cultivar 'ISGDP01-1' was first performed by vegetative tip cuttings in a commercial greenhouse in Santa Paula, Calif. in October 2018. 'ISGDP01-1' has since produced several generations and has shown that the unique features of this cultivar are stable and reproduced true to type. Typical asexual reproduction of the new variety is by vegetative cuttings.

SUMMARY OF THE INVENTION

The cultivar 'ISGDP01-1' has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, day length, and light intensity, without, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'ISGDP01-1'. These characteristics in combination distinguish 'ISGDP01-1' as a new and distinct *Ipomoea* cultivar:

1. Vigorous growth.
2. Deep, dark greyed-purple foliage color.
3. Semi-compact, mounding habit.
4. Very well branched.

PARENTAL COMPARISON

Plants of the new cultivar 'ISGDP01-1' are similar to the parent in most horticultural characteristics. However, 'ISGDP01-1' differs in the following:

1. The new variety has a more vigorous growth habit than the parent.

COMMERCIAL COMPARISON

Plants of the new cultivar 'ISGDP01-1' can be compared to the commercial variety *Ipomoea batatas* 'Sweet Caroline Purple', U.S. Plant Pat. No. 14,912. Plants of 'ISGDP01-1' are similar to plants of 'Sweet Caroline Purple' in some horticultural characteristics, however, plants of 'ISGDP01-1' differ in the following:

1. The new variety has a more compact growth habit than this comparator.
2. The new variety has deeper purple leaves than this comparator.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photograph in FIG. **1** illustrates in full color a typical plant of 'ISGDP01-1', seen in the left side of the photograph. The plant on the right of the photograph is the abovementioned comparator variety 'Sweet Caroline Purple'. Both plants are approximately 8 weeks old, from an unrooted cutting, shown in a 1 gallon pot.

FIG. **2** illustrates a close up of the foliage of both the new variety and the abovementioned comparator. Foliage of the new variety is on the left in FIG. **2**, foliage of this comparator is seen on the right side of the photograph. Plants were grown in a greenhouse in Santa Paula, Calif.

The photographs were taken using conventional techniques and although colors may appear different from actual colors due to light reflectance it is as accurate as possible by conventional photographic techniques.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The R.H.S. Colour Chart, 2007, except where general terms of ordinary dictionary significance are used. The following

observations and measurements describe 'ISGDP01-1' plants grown during the Spring months in a greenhouse in Santa Paula, Calif., under bright, unshaded conditions. Average day temperatures were approximately 20° C. to 26° C. and the average night temperature was approximately 15° C. to 18° C. No artificial light, photoperiodic treatments or chemical treatments were given to the plants. Measurements and numerical values represent averages of typical plant types.

Botanical classification: *Ipomoea batatas* 'ISGDP01-1'.

Age of the plant described: Approximately 8 weeks from an unrooted cutting. Container size of the plant described: 1 gallon commercial container.

Propagation

Propagation method.—Terminal cuttings.

Time to develop roots suitable for transplanting.—Summer — about 6 days at an average temperature of 24° C.; Winter — about 10 days at an average temperature of 24° C.

Root description.—Thick, fleshy. Roots colored closest to RHS Yellow-White 158A.

Tuber description.—Not observed to date.

Plant:

Growth habit.—Semi-compact, and mounding. Dense and bushy.

Height.—Measured from top of soil line of pot, approximately 25 cm.

Plant spread.—Approximately 45 cm.

Growth rate.—Rapid.

Branching characteristics.—Very free branching, alternate or whorled occurring.

Primary lateral branches:

Length.—9 to 15 cm.

Diameter.—Approximately 0.6 cm.

Texture.—Glabrous.

Color.—Near RHS Greyed-Purple 187A

Strength.—Strong.

Internode length.—0.5-1.8 cm.

Adventitious roots at nodes.—Not observed.

Secondary lateral branches:

Length.—4 to 10 cm.

Diameter.—Approximately 0.4 cm.

Texture.—Glabrous.

Color.—Near RHS Purple N79A.

Strength.—Flexible.

Internode length.—0.8 to 1.8 cm.

Quantity per 8 week old plant.—Approximately 16.

Adventitious roots at nodes.—Not observed.

New shoot growth characteristics:

Color.—Near RHS Purple N79A.

Aspect.—Upright in the center, outward on outer circumference of plant.

Texture.—Glabrous.

Foliage:

Leaf:

Arrangement.—Whorled and alternate, simple.

Average length.—14 cm.

Average width.—11 cm.

Shape of blade.—Palmate with 2 deep sinuses, approximately 4 cm deep. 2 moderately deep sinuses approximately 2 cm deep.

Apex.—Acute.

Base.—Cordate.

Margin.—Entire.

Aspect.—Upward fold from petiole.

Texture of top surface.—Glabrous.

Texture of bottom surface.—Glabrous.

Appearance of top surface.—Matte.

Appearance of bottom surface.—Matte.

Quantity of leaves per lateral branch.—Average 10 to 22.

Foliage color:

Young foliage upper side.—Near RHS Greyed-Purple N186A. Veins 187A.

Young foliage under side.—Near RHS Greyed-Purple N186C. Veins 187D.

Mature foliage upper side.—Near RHS Greyed-Purple N186A. Veins Greyed-Purple 187B.

Mature foliage under side.—Near RHS Purple 79A. Veins Violet 83B.

Venation:

Type.—Palmate, reticulate.

Petiole:

Length.—Approximately 4 to 9 cm.

Diameter.—Approximately 0.4 cm at base, 0.3 cm at leaf attachment.

Texture.—Glabrous.

Color.—Near RHS Purple N79A.

Strength.—Strong.

Aspect.—Straight to slightly curved.

Flower: Flowering not observed to date.

Other characteristics:

Seeds and fruits: No seeds/fruits observed.

Disease/pest resistance: Neither resistance nor susceptibility to the normal pests and diseases of *Ipomoea* has been observed.

Temperature tolerance: Tolerates low temperatures to approximately 2° C. Good high temperature tolerance, observed to at least 38° C.

What is claimed is:

1. A new and distinct cultivar of *Ipomoea batatas* plant named 'ISGDP01-1' as herein illustrated and described.

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FIG. 1

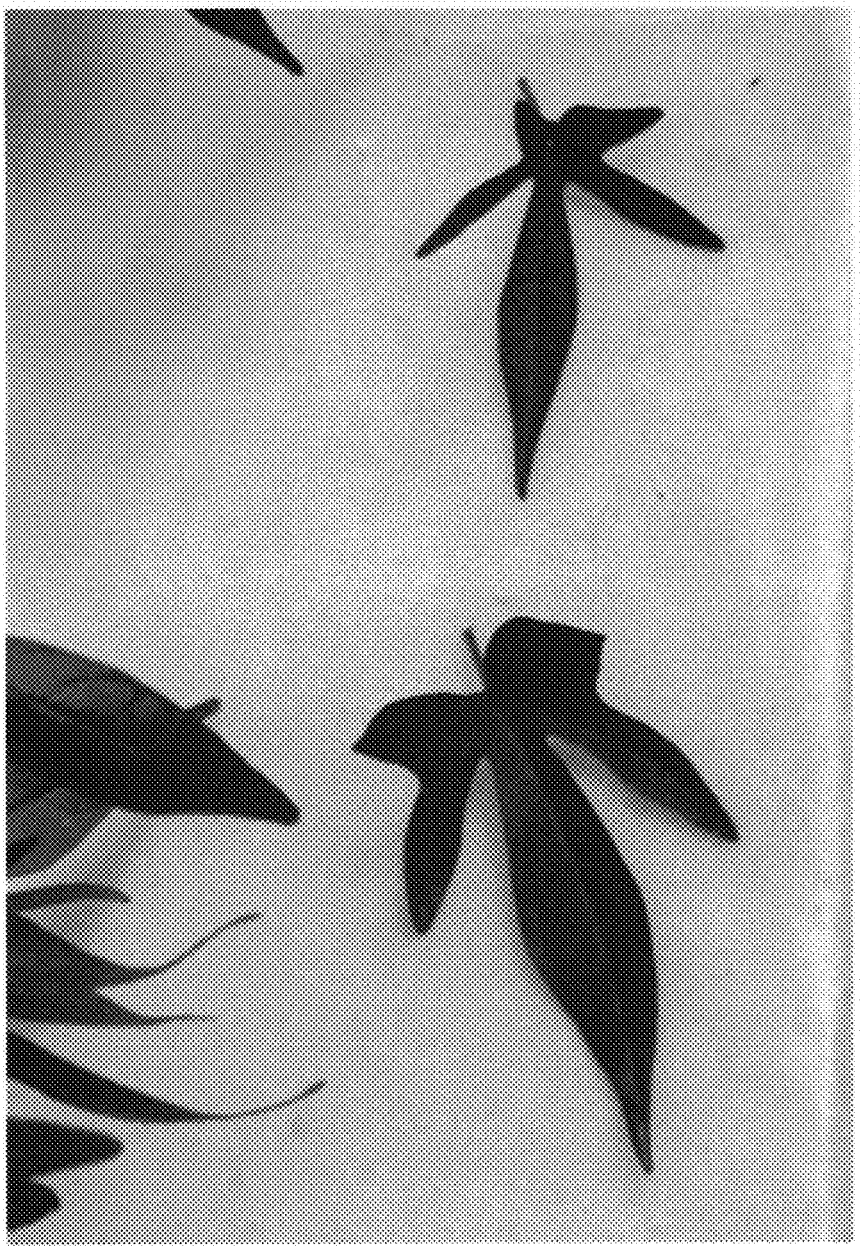

FIG. 2