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(12) **United States Plant Patent**  
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(54) **BIDENS PLANT NAMED ‘FSK17S45’**

(50) Latin Name: *Bidens ferulifolia*  
Varietal Denomination: **FSK17S45**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(30) **Foreign Application Priority Data**

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(52) **U.S. Cl.**  
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(58) **Field of Classification Search**  
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See application file for complete search history.

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(57) **ABSTRACT**

A new cultivar of *Bidens* plant named ‘FSK17S45’ that is characterized by its medium sized inflorescences, its inflorescences with ray florets that are orange-red with a yellow edge, its moderately vigorous plant habit, and its mounding to semi-trailing plant habit.

**2 Drawing Sheets**

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Botanical classification: *Bidens ferulifolia*.  
Variety denomination: ‘FSK17S45’.

**CROSS-REFERENCE TO A RELATED APPLICATION**

This application claims priority to European Community Plant Variety Office (CPVO) Plant Breeder’s Rights Application No. 2021/1915 filed on Jul. 21, 2021, under 35 U.S.C. 119(f), the entire contents of which is incorporated by reference herein. There have been no offers for sale anywhere in the world prior to the effective filing date of this Application and no accessibility to one of ordinary skill in the art could have been derived from the printed plant breeder’s rights documents.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar of *Bidens ferulifolia* plant, botanically known as *Bidens ferulifolia* ‘FSK17S45’ and will be referred to hereinafter by its cultivar name, ‘FSK17S45’. The new cultivar of *Bidens* is an herbaceous perennial grown for landscape and container use.

The new cultivar was derived from a controlled breeding program conducted by the Inventor in Katsuta-Gun, Okayama-Pref., Nagi-chio Gyoho, Japan. The new cultivar arose from a cross made in June of 2013 between an unnamed and unpatented proprietary plants from the Inventor’s breeding program; reference no. F1241 as the female parent and ref no. F1238 as the male parent. The Inventor selected ‘FSK17S45’ in October of 2014 as a single unique plant amongst the seedlings that resulted from the above cross.

Asexual propagation of the new cultivar was first accomplished by stem cuttings in March of 2015 by the Inventor in Katsuta-Gun, Okayama-Pref., Nagi-chio Gyoho, Japan. Asexual propagation by stem cuttings has determined the

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characteristics of the new cultivar are stable and reproduced true to type in successive generations.

**SUMMARY OF THE INVENTION**

The following traits have been repeatedly observed and are determined to be the characteristics of the new cultivar. These attributes in combination distinguish ‘FSK17S45’ as a unique cultivar of *Bidens*.

1. ‘FSK17S45’ exhibits medium sized inflorescences.
2. ‘FSK17S45’ exhibits inflorescences with ray florets that are orange-red with a yellow edge.
3. ‘FSK17S45’ exhibits a moderately vigorous plant habit.
4. ‘FSK17S45’ exhibits a mounding to semi-trailing plant habit.

The male parent differs from ‘FSK17S45’ in having larger inflorescences with ray florets with centers that are more red in color, and a more upright mounding plant habit. The female parent differs from ‘FSK17S45’ in having larger inflorescences with ray floret with orange-red centers with have a yellow longitudinal strip along the center vein of the petal and a more vigorous growth habit. ‘FSK17S45’ can also be compared to the *Bidens* cultivar ‘Timeless Golden’ (not patented). ‘Timeless Golden’ differs from ‘FSK17S45’ in having a mounding to upright plant habit, and inflorescences with ray florets that are yellow in color with more ray florets.

**STATEMENT REGARDING PRIOR DISCLOSURES BY THE INVENTOR**

The Applicant asserts that no publications or advertisements relating to sales, offers for sale, or public distribution occurred more than one year prior to the effective filing date of this application. Any information about the claimed plant would have been obtained from a direct or indirect disclosure from the Inventor. The Applicant claims a prior art exemption under 35 U.S.C. 102(b)(1) for disclosure and/or

sales prior to the filing date but less than one year prior to the effective filing date. Disclosures include but may not be limited to website listings by MG Webber West Country Grown Ltd., Syngenta Flowers, Young's Plant Farm, Greenhouse Canada, Willow Brook Nursery and Garden Centre, GardenCenter (California Pack Trials), Al's Garden Center, BallHort, JVK, BFG Supply, Nursery Management, Podolonomi, Easton Horticultural Resources, Schetelig, Malborg's Inc., Les Serres Isabelle Gagnon, Welby Gardens, and Norseco.

#### BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying color photographs illustrate the overall appearance and distinct characteristics of the new *Bidens*. The photographs were taken of an 11-week-old plant of 'FSK17S45' as grown in a greenhouse in a 12-cm container in Andijk, The Netherlands.

The photograph in FIG. 1 provides a side view of the plant habit of 'FSK17S45' in bloom.

The photograph in FIG. 2 provides a close-up view of an inflorescence of 'FSK17S45'.

The colors in the photographs are as close as possible with the photographic and printing technology utilized and the color values cited in the detailed botanical description accurately describe the colors of the new *Bidens*.

#### DETAILED BOTANICAL DESCRIPTION

The following is a detailed description of 16-week-old plants of 'FSK17S45' as grown in 12-cm containers in a greenhouse in Andijk, The Netherlands. The phenotype of the new cultivar may vary with variations in environmental, climatic, and cultural conditions, as it has not been tested under all possible environmental conditions. The color determination is in accordance with The 2001 Colour Chart of The Royal Horticultural Society, London, England, except where general color terms of ordinary dictionary significance are used.

##### General description:

*Blooming period*.—Blooms continuously from spring through summer in Andijk, The Netherlands.

*Plant type*.—Herbaceous perennial, grown as an annual.

*Plant habit*.—Mounding to semi-trailing, rounded.

*Height and spread*.—An average of 11 cm in height and 33 cm in width as a 16-week-old plant.

*Cold hardiness*.—At least to U.S.D.A Zones 9 to 11.

*Diseases and pests*.—No susceptibility and resistance to pests and diseases has been observed.

*Root description*.—Fine, freely branching, 155B.

*Propagation*.—Stem cuttings.

*Root development*.—About 3 weeks to initiation roots and 8 weeks to root and bloom as a young plant.

*Growth rate*.—Moderately vigorous.

##### Stem description:

*Shape*.—Rounded, very slightly angled.

*Stem color*.—139C, with some spots of 200C.

*Stem size*.—10 to 14 cm in length and 3 mm in diameter.

*Stem surface*.—Slightly pubescent with some anthocyanin presence.

*Stem strength*.—Strong.

*Internode length*.—1 to 2.5 cm.

*Branching habit*.—Freely branched.

##### Foliage description:

*Leaf division*.—Simple.

*Leaf arrangement*.—Opposite.

*Leaf attachment*.—Petiolate.

*Leaf petioles*.—5 mm to 1.5 cm in length, 1.5 mm in diameter, both surfaces 137C in color, surface slightly pubescent.

*Leaf shape*.—Trifoliolate.

*Leaf margins*.—Dentate.

*Leaf size*.—1.5 cm to 3 cm in length and width.

*Leaf base*.—Acute.

*Leaf apex*.—Acute.

*Leaf venation*.—Pinnate, upper and lower surface color 139C.

*Leaf surface*.—Upper and lower surface smooth.

*Leaf color*.—Young upper surface 139A, young lower surface 138B, mature upper surface between 139A, mature lower surface 137C.

##### Flower description:

*Inflorescence type*.—Terminal and axillary capitulum, daisy-type.

*Lastingness of inflorescence*.—Average of 7 to 8 days, discs persistent, ray florets self-cleaning.

*Fragrance*.—Sweet, spicy.

*Quantity of inflorescences*.—Free flowering, with an average of 50 inflorescences with 8 buds per plant.

*Inflorescence size*.—An average of 1.1 cm in height, 4.5 cm in diameter.

*Inflorescence buds*.—Ovate in shape, an average of 1 cm in depth and diameter, pubescent surface, color; 137C, tip 46A, stripes 17B.

*Peduncle*.—Rounded in shape, strong, 3.5 cm to 4 cm in length and 2 mm in diameter, 139C in color, surface is sparsely pubescent covered with short soft hairs.

##### Involucral bracts:

*Involucral number*.—27.

*Involucral arrangement*.—Spirally placed around involucre.

*Involucral size*.—4 mm to 5 mm in length, 1.5 mm to 2 mm in width.

*Involucral color*.—Upper and lower surface 137A.

*Involucral texture*.—Both surfaces smooth.

*Involucral apex*.—Acute.

*Involucral base*.—Truncate.

*Involucral shape*.—Lanceolate.

##### Ray florets (no reproductive organs):

*Number*.—7 to 8, an average of 2 rows (whorls).

*Shape*.—Ovate.

*Size*.—An average of 1.9 cm in length and 9 mm in width.

*Apex*.—Tridentate.

*Base*.—Ovate.

*Margins*.—Entire.

*Aspect*.—Nearly horizontal to slightly upward, slightly convex.

*Surface*.—Both surfaces smooth.

*Color*.—When opening and fully open upper and lower surface; 46A, margins 17B, just before senescence; upper surface 172C, margins 17B, lower surface 17B, stripes 47A.

##### Disc florets:

*Number*.—An average of 80.

*Shape*.—Tubular.

*Size*.—Average of 7 mm in length and 1.5 mm in width.

*Apex.*—Five-pointed.

*Margins.*—Entire.

*Surface.*—Both surfaces smooth.

*Color.*—Upper and lower surface when opening and fully open; 17A.

Reproductive organs:

*Presence.*—Disc florets only.

*Gynoecium.*—1 Pistil, an average of 3.5 mm in length, stigma; decurrent, 14A in color, style; 2.5 mm in length, ovary; 145D in color.

*Androecium.*—5 stamens, anther; basifixed, linear, 1 mm to 1.5 mm in length, 200A in color, filament; 1 cm in length, pollen; none observed.

*Seed.*—No seed development has observed to date.

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It is claimed:

1. A new and distinct cultivar of *Bidens* plant named 'FSK17S45' as herein illustrated and described.

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FIG. 1



FIG. 2