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# United States Patent [19]

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Tristram

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[54] SPIRAEA PLANT NAMED 'WALBUMA'

P.P. 7,537 5/1991 Catt ..... Plt./54.1

[76] Inventor: David R. Tristram, Old Rectory, Binsted, Arundel, West Sussex, BN18 OLL, England

Primary Examiner—James R. Feyrer  
Attorney, Agent, or Firm—C. A. Whealy

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### [57] ABSTRACT

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A new and distinct cultivar of *Spiraea japonica* named Walbuma, characterized by its compact and spreading habit; small leaves; intense red young shoot and leaf color; early spring growth and early flowering; mature leaves turning gold in sunlight; phenotypic stability and absence of any shoots or leaves reverting to green; and bright pink flower color.

[51] Int. Cl.<sup>6</sup> ..... A01H 5/00

[52] U.S. Cl. .... Plt./54.1

[58] Field of Search ..... Plt./54.1

### [56] References Cited

#### U.S. PATENT DOCUMENTS

P.P. 5,834 12/1986 Huber ..... Plt./54.1

1 Drawing Sheet

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The present invention relates to a new and distinct cultivar of *Spiraea* plant, botanically known as *Spiraea japonica* and referred to by the cultivar name Walbuma. The new variety it also known in the horticultural trade by the name Magic Carpet.

The new cultivar is the result of a breeding and selection program involving several thousand plants and conducted by the inventor at Walberton Nursery in West Sussex, England, with the intent of developing an improvement of the non-patented *Spiraea japonica* cultivar Goldflame. The cultivar Walbuma was discovered by the inventor in the third generation of a seedling selection process. Specifically, the inventor sowed seeds from self-pollinated plants of the cultivar Goldflame, and the best seedling selections were chosen. These selections were self-pollinated, the resulting seeds were sown, and the best seedling selections were chosen by the inventor. These seedling selections were also self-pollinated, the resulting seeds were swon, and the cultivar Walbuma was discovered by the inventor in the third generation of this seedling selection process.

Asexual reproduction of the new cultivar by softwood cuttings taken by the inventor in West Sussex, England, has shown that the unique features of this new *Spiraea* are stabilized and are reproduced true to type in successive propagations.

The new cultivar has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, daylength and light intensity, without, however, any variance in genotype. The following observations, measurements, values, and comparisons describe plants grown in West Sussex, England, under outdoor conditions which closely approximate those generally used in commercial horticulture and garden practice.

The following characteristics have been repeatedly observed and are determined to be basic characteristics of Walbuma, which in combination distinguish this *Spiraea* from the cultivar Goldflame and distinguish it as a new and distinct cultivar:

1. A compact and spreading plant habit. Plants of Goldflame are generally twice as tall as plants of Walbuma.
2. Small leaf size. Leaves of plants of Walbuma are shorter and narrower than leaves of Goldflame.
3. Phenotypic stability. Leaves of plants of Walbuma maintain their golden color when mature without reversion to a dark green color. Portions or entire leaves or shoots of the cultivar Goldflame will revert to a dark green color, regardless of light level. This indicates phenotypic instabil-

ity.

4. Intense red color of the young shoots and leaves. Young shoots and leaves of the cultivar Walbuma are more red than young shoots and leaves of Goldflame.

5. Early growth of new shoots and leaves. In the spring, plants of Walbuma form new shoots and leaves one month earlier than plants of Goldflame.

6. Early flowering. Plants of Walbuma form flowers approximately three weeks earlier than plants of Goldflame.

A detailed comparison of the cultivars Walbuma and Goldflame appears in Chart A at the end of the specification.

The accompanying colored photograph illustrates the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. The photograph comprises a top perspective view of a single potted plant of Walbuma.

The following description of the new cultivar is based on plants produced in West Sussex, England, under outdoor conditions in summer with average day temperatures ranging from 12° to 25° C. and average night temperatures ranging from 8° to 14° C. Color references are made to The Royal Horticultural Society Colour Chart except where general terms of ordinary dictionary significance are used. Botanical classification: *Spiraea japonica* cultivar Walbuma.

Parentage: Three generations of seeding selection from *Spiraea japonica* cultivar Goldflame.

Propagation:

A. Type.—By softwood cuttings.

B. Time to initiate roots, summer.—8 to 15 days at temperatures of 18° to 22° C.

C. Rooting habit.—Fibrous and branching.

Plant description:

A. General appearance.—Deciduous shrub. Low growing (25 to 50 cm) and spreading habit. In the northern hemisphere, young shoots and leaves are red in February; as leaves develop, they become gold in color; under full sunlight, mature leaves are more golden; under partial shade, mature leaves are greenish gold; under dense shade, mature leaves are bright green; bright pink flowers develop in June and plants continue to flower throughout the summer under good growing conditions.

B. Foliage description.— 1. Leaf shape: Ovate. 2. Leaf margin: Serrate. 3. Leaf apex: Acute. 4. Leaf base: Obtuse. 5. Leaf aspect: Concave along central vein, becoming flat with maturity. 6. Leaf length: 25 to 60 mm. 7. Leaf width: 15 to 30 mm. 8. Leaf texture: Top

and under sides glabrous and dull. Veins prominent on under side. 9. Leaf color: a. Young leaves, beginning to expand: (1) Top side: Red, 182A. (2) Under side: Dark red, 187C. b. Young leaves, halfway expanded: (1) Top side: Red-brown, 176C. (2) Under side: Dark red, 184B. c. Fully expanded leaves in full sunlight: (1) Top side: Gold, 153D. (2) Under side: Light green, 146D. d. Fully expanded leaves in partial shade: (1) Top side: Greenish gold, 151A. (2) Under side: Light green, 147C. e. Fully expanded lower leaves, completed shaded: (1) Top side: Bright green, 143B. (2) Under side: Light green, 139D. 10. Petiole length: 1.5 mm. 11). Petiole color: a. Young leaves, beginning to expand: 182A. b. Young leaves, halfway expanded: 176C. c. Fully expanded leaves, full sunlight: 153D. d. Fully expanded leaves, partial shade: 151A. e. Fully expanded lower leaves, dense shade: 143B.

Flowering description:

- A. *Inflorescence*.—Flowers borne in slightly domed compound terminal corymbs with a 20 to 60 mm diameter.
- B. *Natural flowering season*.—Natural flowering season in June and July in the northern hemisphere.
- C. *Quantity of flowers*.—Each corymb is comprised of 20 to 200 individual flowers.
- D. *Individual flowers*.— 1. Diameter: 6 to 9 mm. 2. Petals: a. Quantity: 5. b. Length: 2 to 3 mm. c. Width: 2 to 3 mm. d. Color: Both top and under sides, bright pink, 67D. 3. Sepals: a. Quantity: 5. b. Color: Both top and under sides, typically dark red, 59A.
- E. *Reproductive organs*.— 1. Styles: a. Quantity: 5. b. Length: 1 to 2 mm. c. Color: Reddish pink, 59D. 2. Anthers: a. Quantity: 10. b. Aspect: Prominent, projecting above flowers. c. Color: Dark red, 59A. 3. Filaments: a. Length: 5 to 8 mm. b. Color: Bright pink, 67D.

Disease resistance: No marked susceptibility nor resistance to fungal, bacterial or viral pathogens had been noted.

CHART A

CHARACTERISTIC	WALBUMA	GOLDFLAME
PLANT HEIGHT	25 to 50 cm	50 to 90 cm
LEAF LENGTH	25 to 60 mm	40 to 70 mm
LEAF WIDTH	15 to 30 mm	20 to 60 mm
LEAF COLOR:		
YOUNGEST LEAVES, TOP SIDE	182A	183B
YOUNGEST LEAVES, UNDER SIDE	187C	187C
HALF-EXPANDED LEAVES, TOP SIDE	176C	177C
HALF-EXPANDED LEAVES, UNDER SIDE	184B	177D
FULLY EXPANDED LEAVES, SUN, TOP SIDE	153D	153D
FULLY EXPANDED LEAVES, SUN, UNDER SIDE	146D	146D
FULLY EXPANDED LEAVES, SHADE, TOP SIDE	151A	151A
FULLY EXPANDED LEAVES, SHADE, UNDER SIDE	147C	147C
SHADED LOWER LEAVES, TOP SIDE	143B	144B
SHADED LOWER LEAVES, UNDER SIDE	139D	139D
FLOWER DIAMETER	6 to 9 mm	5 to 7 mm
PETAL LENGTH	2 to 3 mm	1.5 to 3 mm
PETAL WIDTH	2 to 3 mm	1 to 2 mm
PETAL COLOR	67D	68B
STYLE LENGTH	1 to 2 mm	1 to 1.5 mm
STYLE COLOR	59D	60C
FILAMENT LENGTH	5 to 8 mm	2 to 6 mm
FILAMENT COLOR	67D	59D

I claim:

1. A new and distinct cultivar of *Spiraea japonica* named Walbuma, as illustrated and described.

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**U.S. Patent**

**Nov. 7, 1995**

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