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

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(54) **SILENE PLANT NAMED 'FIREFLY'**

(52) **U.S. Cl.** **Plt./481**

(50) Latin Name: *Silene dioica*
Varietal Denomination: **Firefly**

(58) **Field of Classification Search** Plt./481
See application file for complete search history.

(76) Inventor: **Gwendyth Blake**, 1A Moorfield Road,
Woodbridge, Suffolk IP12 4JN (GB)

Primary Examiner—Kent L Bell
(74) *Attorney, Agent, or Firm*—C. A. Whealy

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

(57) **ABSTRACT**

A new and distinct cultivar of *Silene* plant named 'Firefly',
characterized by its upright to outwardly spreading plant
habit; freely branching habit; dark green-colored leaves;
freely flowering habit; and fully double red purple-colored
flowers.

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(51) **Int. Cl.**
A01H 5/00 (2006.01)

1 Drawing Sheet

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Botanical designation: *Silene dioica*.
Cultivar denomination: 'Firefly'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Silene*, botanically known as *Silene dioica* and hereinafter
referred to by the name 'Firefly'.

The new *Silene* is a naturally-occurring whole plant muta-
tion of an unnamed selection of *Silene dioica*, not patented.
The new *Silene* was discovered and selected by the Inventor
as a single flowering plant from within a population of plants
of the selection in a controlled outdoor nursery environment
in Woodbridge, Suffolk, United Kingdom in June, 2001.

Asexual reproduction of the new *Silene* by divisions in a
controlled outdoor nursery environment in Woodbridge,
Suffolk, United Kingdom, since May, 2002, has shown that
the unique features of this new *Silene* are stable and repro-
duced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Silene* have not been observed under all
possible environmental conditions. The phenotype may vary
somewhat with variations in environment such as tempera-
ture 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 'Firefly'.
These characteristics in combination distinguish 'Firefly' as
a new and distinct cultivar:

- 1. Upright to outwardly spreading plant habit.
- 2. Freely branching habit.
- 3. Dark green-colored leaves.
- 4. Freely flowering habit.
- 5. Fully double red purple-colored flowers.

Plants of the new *Silene* differ from plants of the parent
selection in the following characteristics:

- 1. Plants of the new *Silene* have double flowers whereas
plants of the parent selection have single flowers.

- 2. Plants of the new *Silene* have smaller flowers than
plants of the parent selection.
- 3. In Woodbridge, Suffolk, United Kingdom, plants of the
new *Silene* flower from May to September whereas
plants of the parent selection flower from April until
July.

- 4. Plants of the new *Silene* and the parent selection differ
in flower color as plants of the parent selection have
pale to dark pink-colored flowers.

Plants of the new *Silene* can be compared to plants of the
Silene 'Rosea Plena', not patented. In side-by-side compari-
sons in Bressingham, United Kingdom, plants of the new
Silene differed from plants of the 'Rosea Plena' in the fol-
lowing characteristics:

- 1. Plants of the new *Silene* had smaller flowers than plants
of 'Rosea Plena'.
- 2. Plants of the new *Silene* had fully double flowers
whereas plants of 'Rosea Plena' had semi-double to
double flowers.
- 3. Plants of the new *Silene* had red purple-colored flowers
whereas plants of 'Rosea Plena' had pink-colored flow-
ers.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the
overall appearance of the new cultivar, showing the colors as
true as it is reasonably possible to obtain in colored repro-
ductions of this type. Colors in the photographs may differ
slightly from the color values cited in the detailed botanical
description which accurately describe the actual colors of
the new *Silene*.

The photograph at the bottom of the sheet comprises a
side perspective view of a typical flowering plant of 'Firefly'
grown in a container.

The photograph at the top of the sheet is a close-up view
of typical flowers of 'Firefly'.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to
The Royal Horticultural Society Colour Chart, 2001 Edition,

except where general terms of ordinary dictionary significance are used. Plants used for the aforementioned photographs and following description were grown under conditions which closely approximate commercial production conditions during the winter and early spring in a polyethylene-covered greenhouse in Lancaster, Pa. for four months. During the production of the plants, day temperatures ranged from 18° C. to 27° C. and night temperatures averaged 18° C.

Botanical classification: *Silene diocia* 'Firefly'.

Parentage: Naturally-occurring whole plant mutation of an unnamed selection of *Silene diocia*, not patented.

Propagation:

Type.—By divisions.

Time to initiate roots.—About 15 days at 21° C. to 25° C.

Time to produce a rooted young plant.—About 30 days at 21° C. to 25° C.

Root description.—Medium to fine, fibrous; close to 158B in color.

Rooting habit.—Freely branching; dense.

Plant description:

Form.—Herbaceous perennial. Upright and outwardly spreading plant habit; freely branching habit; vigorous growth habit. Flowers arranged in terminal and axillary clusters.

Plant height.—About 58 cm.

Plant width.—About 58 cm.

Lateral branch description.—Quantity per plant: About six primary branches. Length: About 56 cm. Diameter: About 4 mm. Internode length: About 2.4 cm. Strength: Strong. Texture: Hirsute. Color: Close to 146B.

Foliage description:

Arrangement.—Opposite, simple.

Length.—About 8.6 cm.

Width.—About 5 cm.

Shape.—Obovate to elliptical.

Apex.—Acute.

Base.—Attenuate to truncate.

Margin.—Entire.

Texture, upper and lower surfaces.—Hirsute.

Venation pattern.—Pinnate; arcuate.

Color.—Developing foliage, upper surface: Close to 146A. Developing foliage, lower surface: Close to 146B. Fully expanded foliage, upper surface: Close to 147A; venation, 146B. Fully expanded foliage, lower surface: Close to 146B; venation, close to 146B.

Petiole length.—About 6.8 cm.

Petiole diameter.—About 6 mm.

Petiole texture, upper and lower surfaces.—Pubescent.

Petiole color, upper surface.—Close to 146D.

Petiole color, lower surface.—Close to 147C.

Flower description:

Flower arrangement and shape.—Fully double rounded flowers arranged in terminal and axillary clusters; flowers face mostly upright to outwardly. Freely flowering, about 87 flowers and flower buds per lateral branch.

Natural flowering season.—Continuous flowering during May in Pa.

Flower longevity on the plant.—About five days; flowers persistent.

Fragrance.—None detected.

Flower buds.—Length: About 1.6 cm. Diameter: About 8 mm. Shape: Ovoid; longitudinally ridged. Color: Close to N74B to N74C.

Flowers.—Diameter: About 1.9 cm. Depth (height): About 1.5 cm.

Petals/petaloids.—Arrangement: About 32 in about four tight whorls. Length: About 1.1 cm to 1.5 cm. Width: About 4 mm to 7 mm. Shape: Narrowly cordate. Apex: Emarginate. Base: Acute. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; satiny. Color: When opening, upper and lower surfaces: Close to 74B. Fully opened, upper and lower surfaces: Towards the apex, close to 72C; center, close to NN155B; towards the base, close to 160C to 160D.

Sepals: Arrangement: About six to seven in a single whorl; fused into a bowl-shape calyx. Length: About 9 mm. Width: About 7 mm. Apex: Acute. Margin: Entire. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Pubescent. Color, upper surface: Close to 146C. Color, lower surface: Close to 147B tinted with close to 176C.

Peduncles.—Length: About 7 mm. Diameter: About 1.5 mm. Aspect: About 45° to 55° from vertical. Strength: Strong. Texture: Pubescent. Color: Close to 146B.

Reproductive organs.—Reproductive structures are transformed into petaloids.

Seed/fruit.—Seed and fruit production has not been observed.

Disease/pest resistance: Plants of the new *Silene* have not been noted to be resistant to pathogens and pests common to *Silene*.

Garden performance: Plants of the new *Silene* have exhibited good tolerance to rain, wind and temperatures ranging from about -3° C. to about 30° C.

It is claimed:

1. A new and distinct *Silene* plant named 'Firefly' as illustrated and described.

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