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

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(54) **CYTISUS PLANT NAMED ‘SMNCSDRY’**

(50) Latin Name: *Cytisus scoparius*
Varietal Denomination: **SMNCSDRY**

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USPC **Plt./226**

(58) **Field of Classification Search**
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(57) **ABSTRACT**

A new and distinct cultivar of *Cytisus* plant named ‘SMNC-SDRY’, characterized by its relatively compact, upright to outwardly spreading plant habit; vigorous growth habit; freely branching habit; full and dense plants; freely flowering habit; large red purple-colored flowers; and good garden performance.

2 Drawing Sheets

1

Botanical designation: *Cytisus scoparius*.
Cultivar denomination: ‘SMNCSDRY’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Cytisus* plant, botanically known as *Cytisus scoparius*, commonly referred to as Scotch Broom and hereinafter referred to by the name ‘SMNCSDRY’.

The new *Cytisus* plant is a product of a planned breeding program conducted by the Inventor in Grand Haven, Mich. The objective of the breeding program is to create new compact, dense and uniform *Cytisus* plants with attractive flower form and color.

The new *Cytisus* plant originated from an open-pollination in 2009 in Grand Haven, Mich. of an unnamed selection of *Cytisus scoparius*, not patented, as the female, or seed, parent with an unknown selection of *Cytisus scoparius* as the male, or pollen, parent. The new *Cytisus* plant was discovered and selected by the Inventor as a single flowering plant from within the progeny of the stated open-pollination in a controlled environment in Grand Haven, Mich. during the spring of 2013.

Asexual reproduction of the new *Cytisus* plant by soft-wood stem cuttings in a controlled environment in Grand Haven, Mich. since the spring of 2013 has shown that the unique features of this new *Cytisus* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Cytisus* have not been observed under all possible combinations of environmental conditions and cultural practices. The phenotype may vary somewhat with variations in environmental conditions such as temperature 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 ‘SMNC-

2

SDRY’. These characteristics in combination distinguish ‘SMNCSDRY’ as a new and distinct *Cytisus* plant:

1. Relatively compact, upright to outwardly spreading plant habit.
2. Vigorous growth habit.
3. Freely branching habit; full and dense plants.
4. Freely flowering habit.
5. Large red purple-colored flowers.
6. Good garden performance.

Plants of the new *Cytisus* can be compared to plants of the female parent selection. Plants of the new *Cytisus* differ primarily from plants of the female parent selection in the following characteristics:

1. Plants of the new *Cytisus* are more compact than plants of the female parent selection.
2. Plants of the new *Cytisus* are more outwardly spreading than and not as upright as plants of the female parent selection.
3. Plants of the new *Cytisus* have larger flowers than plants of the female parent selection.
4. Plants of the new *Cytisus* and the female parent selection differ in flower color as plants of the female parent selection have yellow-colored flowers.

Plants of the new *Cytisus* can be compared to plants of *Cytisus scoparius* ‘Lena’, not patented. In side-by-side comparisons, plants of the new *Cytisus* differ from plants of ‘Lena’ in the following characteristics:

1. Plants of the new *Cytisus* are more compact and denser than plants of ‘Lena’.
2. Plants of the new *Cytisus* and ‘Lena’ differ in flower color as flowers of plants of ‘Lena’ are orange red in color.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new *Cytisus* plant showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may

differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Cytisus* plant.

The photograph on the first sheet comprises a side perspective view of a typical flowering plant of 'SMNCSDRY' 5 grown in a container.

The photograph on the second sheet is a close-up view of a typical flowering plant of 'SMNCSDRY'.

DETAILED BOTANICAL DESCRIPTION 10

The aforementioned photographs and following observations and measurements describe plants grown in three-gallon containers during the spring and summer in a polyethylene-covered greenhouse in Grand Haven, Mich. and 15 under cultural practices typical of commercial *Cytisus* production. Plants were two years old when the photographs and description were taken. During the production of the plants, day temperatures ranged from 18° C. to 27° C. and 20 night temperatures ranged from 5° C. to 10° C. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2015 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Cytisus scoparius* 'SMNCSDRY'.

Parentage:

Female, or seed, parent.—Unnamed selection of *Cytisus scoparius*, not patented.

Male, or pollen, parent.—Unknown selection of 30 *Cytisus scoparius*, not patented.

Propagation:

Type.—By softwood stem cuttings.

Time to initiate roots, summer.—About 30 days at temperatures about 20° C. 35

Time to produce a rooted young plant, summer.—About eight months at temperatures about 20° C.

Root description.—Fine to medium in thickness, somewhat fibrous and fleshy; typically white in color, actual color of the roots is dependent on substrate 40 composition, water quality, fertilizer, substrate temperature and physiological age of roots.

Rooting habit.—Freely branching; dense.

Plant description:

Plant form and habit.—Perennial deciduous shrub; 45 relatively compact and upright to outwardly spreading plant habit; freely branching habit with numerous lateral branches developing per plant; full and dense plant habit; vigorous growth habit.

Plant height.—About 45 cm. 50

Plant diameter.—About 60 cm.

Lateral branch description:

Length.—About 30 cm.

Diameter.—About 3 mm.

Internode length.—About 6 mm. 55

Strength.—Strong, flexible.

Aspect.—Upright to about 90° from vertical.

Texture.—Pubescent.

Color.—Close to 136A.

Leaf description: 60

Arrangement.—Alternate; leaves simple or compound with three leaflets per leaf.

Simple leaf length.—About 7 mm.

Simple leaf width.—About 5 mm.

Compound leaf length.—About 1.2 cm. 65

Compound leaf width.—About 4 mm.

Simple leaf and leaflet shape.—Obovate.

Simple leaf apex.—Obtuse.

Leaflet apex.—Acute.

Simple leaf base.—Attenuate.

Leaflet base.—Cuneate.

Simple leaf and leaflet margin.—Entire.

Simple leaf and leaflet texture, upper and lower surfaces.—Slightly pubescent.

Simple leaf and leaflet venation pattern.—Pinnate.

Simple leaf and leaflet color.—Developing leaves, upper and lower surfaces: Close to 143A. Fully expanded leaves, upper surface: Close to 137A; venation, close to 137A. Fully expanded leaves, lower surface: Close to 137C; venation, close to 137C.

Petioles.—Length: About 1.4 cm. Diameter: About 1 mm. Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: Close to 137A.

Flower description:

Flower arrangement and habit.—Single axillary papilionaceous flowers; flowers face mostly outwardly; freely flowering habit with 100's flowers developing per plant during the flowering season.

Natural flowering season.—Plants flower continuously during the spring in Michigan.

Flower longevity on the plant.—Flowers last about two to three weeks; flowers not persistent.

Fragrance.—None detected.

Flower buds.—Length: About 2 cm. Diameter: About 1 cm. Shape: Spherical. Color: Close to 60C blended with close to 23A.

Flowers.—Diameter: About 1.2 cm by 2 cm. Depth (height): About 2.2 cm.

Corolla.—Quantity and arrangement: Single whorl of five petals; one larger standard petal, two wing petals and two fused keel petals. Length, standard petal: About 1.7 cm. Length, wing and keel petals: About 1.5 cm. Width, standard petal: About 1.8 cm. Width, wing and keel petals: About 8 mm. Shape, all petals: Oblong. Apex, all petals: Obtuse. Margin, all petals: Entire. Texture, all petals, upper and lower surfaces: Smooth, glabrous; silky. Color, when opening and fully opened, upper surface: Standard petal: Close to N79D. Wing petals: Close to 53A. Keel petals: Close to N74D and 157C. Color, when opening and fully opened, lower surface: Standard petal: Close to N80D. Wing petals: Close to 77B. Keel petals: Close to N74D and 157C.

Calyx.—Quantity and arrangement: Two, opposite. Sepal length: About 1 mm. Sepal width: About 4 mm. Sepal shape: Triangular. Sepal apex: Acute. Sepal base: Fused. Sepal margin: Entire. Sepal texture, upper and lower surfaces: Smooth, glabrous. Sepal color, upper and lower surfaces: Close to 199C.

Peduncles.—Length: About 8 mm. Diameter: About 1 mm. Strength: Strong; flexible. Aspect: About 30° from lateral branch axis. Texture: Smooth, glabrous. Color: Close to 143A.

Reproductive organs.—Stamens: Quantity: About ten. Filament length: About 3.5 mm to 12 mm. Filament color: Close to N155B. Anther length: About 1 mm. Anther shape: Oblong. Anther color: Close to 17A. Pollen amount: Moderate. Pollen color: Close to 17A. Pistils: Quantity: One per flower. Pistil length:

About 2.5 cm. Stigma shape: Round. Stigma color: Close to 157A. Style length: About 2.5 mm. Style color: Close to 157A. Ovary color: Close to 191C. Seeds and fruits: Seed and fruit development have not been observed on plants of the new *Cytisus* to date.

Garden performance: Plants of the new *Cytisus* have been observed have good garden performance as exhibited by its tolerance to rain and wind. Plants of the new *Cytisus*

have been observed to tolerate temperatures ranging from about -32° C. to about 36° C.

Pathogen & pest resistance: Plants of the new *Cytisus* have not been observed to be resistant to pathogens and pests common to *Cytisus* plants to date.

It is claimed:

1. A new and distinct *Cytisus* plant named 'SMNCSDRY' as illustrated and described.

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