US00PP28907P2

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

(10) **Patent No.: US PP28,907 P2**
(45) **Date of Patent: Jan. 30, 2018**

(54) ***HYDRANGEA* PLANT NAMED 'SCHROLL139-09-01A'**

(50) Latin Name: ***Hydrangea macrophylla***
Varietal Denomination: **SCHROLL139-09-01a**

(71) Applicant: **Soren Schroll**, Odense SV (DK)

(72) Inventor: **Soren Schroll**, Odense SV (DK)

(73) Assignee: **Schroll Management ApS**, Odense SV (DK)

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

(21) Appl. No.: **15/330,433**

(22) Filed: **Sep. 20, 2016**

(51) **Int. Cl.**
***A01H 5/02*** (2006.01)

(52) **U.S. Cl.**
USPC ..... **Plt./250**

(58) **Field of Classification Search**
USPC ..... Plt./250
See application file for complete search history.

*Primary Examiner* — Annette H Para

(57) **ABSTRACT**

A new and distinct cultivar of *Hydrangea* plant named 'SCHROLL139-09-01a', characterized by its compact, upright and mounded plant habit; moderately vigorous growth habit; freely branching habit and strong stems; large mophead-type inflorescences with intense pink-colored sterile flowers or clear blue when treated with aluminum sulfate; long flowering period; and strong root system.

**3 Drawing Sheets**

## 1

Botanical designation: *Hydrangea macrophylla.*

Cultivar denomination: 'SCHROLL139-09-01a'.

### BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Hydrangea* plant, botanically known as *Hydrangea macrophylla* and hereinafter referred to by the name 'SCHROLL139-09-01a'.

The new *Hydrangea* plant is a product of a planned breeding program conducted by the Inventor in Aarslev, Denmark. The objective of the breeding program was to develop new container-type *Hydrangea* plants with strong stems, early flowering response and attractive leaf and flower coloration.

The new *Hydrangea* plant originated from a cross-pollination in May, 2009 of a proprietary selection of *Hydrangea macrophylla* identified as code number 04-00, not patented, as the female, or seed, parent with a proprietary selection of *Hydrangea macrophylla* identified as code number 94-00, not patented, as the male, or pollen, parent. The new *Hydrangea* plant was discovered and selected by the Inventor in 2014 as a flowering plant from within the progeny of the stated cross-pollination in a controlled greenhouse environment in Aarslev, Denmark.

Asexual reproduction of the new cultivar by softwood cuttings in Aarslev, Denmark since 2014 has shown that the unique features of this new *Hydrangea* plant are stable and reproduced true to type in successive generations of asexual reproduction.

### SUMMARY OF THE INVENTION

Plants of the new *Hydrangea* 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.

## 2

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'SCHROLL139-09-01a'. These characteristics in combination distinguish 'SCHROLL139-09-01a' as a new and distinct *Hydrangea* plant:

1. Compact, upright and mounded plant habit.
2. Moderately vigorous growth habit.
3. Freely branching habit and strong stems.
4. Large mophead-type inflorescences with intense pink-colored sterile flowers or clear blue when treated with aluminum sulfate.
5. Long flowering period.
6. Strong root system.

Plants of the new *Hydrangea* differ primarily from plants of the female parent selection in the following characteristics:

1. Plants of the new *Hydrangea* have stronger root systems than plants of the female parent selection.
2. Plants of the new *Hydrangea* have larger inflorescences than plants of the female parent selection.
3. Plants of the new *Hydrangea* and the female parent selection differ in sterile flower color as plants of the female parent selection have sterile flowers that are light pink in color.
4. Plants of the new *Hydrangea* have longer postproduction longevity (shelf-life) than plants of the female parent selection.
5. Plants of the new *Hydrangea* are more tolerant to full sun and rain than plants of the female parent selection.

Plants of the new *Hydrangea* differ primarily from plants of the male parent selection in the following characteristics:

1. Plants of the new *Hydrangea* have stronger root systems than plants of the male parent selection.
2. Plants of the new *Hydrangea* are more freely and uniformly flowering than plants of the male parent selection.
3. Plants of the new *Hydrangea* and the male parent selection differ in sterile flower color as plants of the male parent selection have sterile flowers that are bi-colored.

4. Plants of the new *Hydrangea* have longer postproduction longevity (shelf-life) than plants of the male parent selection.
5. Plants of the new *Hydrangea* are more tolerant to full sun and rain than plants of the male parent selection.

Plants of the new *Hydrangea* can be compared to plants of *Hydrangea macrophylla* 'H213901', disclosed in U.S. Plant Pat. No. 26,221. Plants of the new *Hydrangea* differ primarily from plants of 'H213901' in the following characteristics:

1. Plants of the *Hydrangea* are more compact than and not as vigorous as plants of 'H213901'.
2. Plants of the *Hydrangea* are more freely branching than plants of 'H213901'.
3. Plants of the *Hydrangea* have larger leaves than plants of 'H213901'.
4. Plants of the new *Hydrangea* flower earlier than plants of 'H213901'.
5. Inflorescences of plants of the new *Hydrangea* have more sterile flowers than inflorescences of plants of 'H213901'.
6. Sterile flowers of plants of the new *Hydrangea* are flatter than and not as folded and curly as sterile flowers of plants of 'H213901'.
7. Plants of the new *Hydrangea* and 'H213901' differ in sterile flower color as plants of 'H213901' have sterile flowers that are dark red purple in color.

Plants of the new *Hydrangea* can be compared to plants of *Hydrangea macrophylla* 'H213906', disclosed in U.S. Plant Pat, No. 26,509. Plants of the new *Hydrangea* differ primarily from plants of 'H213906' in the following characteristics:

1. Plants of the *Hydrangea* are more compact than and not as vigorous as plants of 'H213906'.
2. Plants of the new *Hydrangea* and 'H213906' differ in sterile flower color as plants of 'H213906' have sterile flowers that are dark pink in color.

## BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the unique appearance of the new *Hydrangea* 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 from the color values cited in the detailed botanical description which accurately describe the colors of the new *Hydrangea* plant.

The photograph on the first sheet comprises a side perspective view of a typical flowering plant of 'SCHROLL139-09-01a' grown in a container.

The photograph on the second sheet is a close-up view of a typical inflorescence from a plant of 'SCHROLL139-09-01a' not treated with aluminum sulfate.

The photograph on the third sheet is a close-up view of a typical inflorescence from a plant of 'SCHROLL139-09-01a' treated with aluminum sulfate.

## DETAILED BOTANICAL DESCRIPTION

Plants used in the aforementioned photographs and in the following description were grown during the spring in 13-cm containers in a glass-covered greenhouse in Aarslev, Denmark and under cultural practices typical of commercial *Hydrangea* production. Plants of the new *Hydrangea* were pinched one time and were one year old when the photographs and description were taken. During the production of the plants, day temperatures ranged from 15° C. to 25° C., night temperatures ranged from 10° C. to 20° C. and light levels ranged from 40 to 50 klux. Some plants used for the description and photographs were treated with aluminum sulfate to "blue" the inflorescences and some plants were not treated with aluminum sulfate. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2007 Edition, except where general terms of ordinary dictionary significance are used.

Botanical description: *Hydrangea macrophylla* 'SCHROLL139-09-01a'.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Hydrangea macrophylla* identified as code number 04-00, not patented.

*Male, or pollen, parent.*—Proprietary selection of *Hydrangea macrophylla* identified as code number 94-00, not patented.

Propagation:

*Type cutting.*—By softwood cuttings.

*Time to initiate roots, summer.*—About ten days at temperatures about 18° C. to 22° C.

*Time to initiate roots, winter.*—About two weeks at temperatures about 18° C. to 20° C.

*Time to produce a rooted young plant, summer.*—About four weeks at temperatures about 18° C. to 20° C.

*Time to produce a rooted young plant, winter.*—About five weeks at temperatures about 18° C. to 20° C.

*Root description.*—Strong root system; medium in thickness, fibrous; white, close to N155B, in color.

*Rooting habit.*—Low branching; sparse.

Plant description:

*Plant and growth habit.*—Perennial subshrub; compact, upright and mounded plant habit; broadly inverted triangle; freely branching habit with about eight to ten lateral branches developing per plant; strong lateral branches; moderately vigorous growth habit.

*Plant height.*—About 35 cm to 38 cm.

*Plant diameter or area of spread.*—About 40 cm.

*Lateral branches.*—Length: About 20 cm to 24 cm. Diameter: About 7 mm. Internode length: About 4.5 cm. Strength: Strong. Texture: Smooth, glabrous; becoming woody with development. Color, developing: Close to 142A and 140B. Color, developed: Close to 199B. Color, lenticels: Close to N199B.

Leaf description:

*Arrangement.*—Opposite, simple.

*Length.*—About 11.8 cm.

*Width.*—About 9 cm.

*Shape.*—Ovate.

*Apex.*—Acute or sub-acuminate.

*Base.*—Obtuse to rounded.

*Margin.*—Serrate.

*Texture and luster, upper surface.*—Rugose, glabrous; moderately glossy to matte.

*Texture and luster, lower surface.*—Rough, glabrous; prominent venation; matte.

*Venation pattern.*—Pinnate, reticulate.

*Color.*—Developing leaves, upper surface: Close to 133A and 135A. Developing leaves, lower surface: Close to 139B and 141C. Fully expanded leaves, upper surface: Close to 133A and 139A; venation,

close to 146C. Fully expanded leaves, lower surface: Close 141C; venation, close to 146C.

*Petioles*.—Length: About 1.5 cm. Diameter: About 8 mm to 10 mm. Strength: Strong. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper surface: Close to 142B, 140C and 144C. Color, lower surface: Close to 146A.

Inflorescence & flower description:

*Flower type and habit*.—Showy single sterile and inconspicuous single fertile flowers arranged on terminal mophead-type panicles; panicles hemispherical to flattened globular in overall shape; fertile flowers face mostly upright and sterile flowers face upright to outwardly; early flowering habit, plants begin flowering about eight weeks after planting.

*Natural flowering season*.—Continuous flowering during the summer in Northern Europe.

*Flower longevity, fertile flowers*.—Flowers last less than one month; fertile flowers not persistent.

*Flower longevity, sterile flowers*.—Long flowering period, flowers last about four months on the plant; sterile flowers persistent.

*Quantity of flowers*.—Freely flowering habit with about 53 to 60 fertile flowers and about 160 to 175 sterile flowers per panicle.

*Fragrance*.—None detected.

*Panicle height*.—About 8 cm to 10 cm.

*Panicle diameter*.—About 15 cm.

*Flower diameter, fertile flowers*.—About 1 cm to 1.2 cm.

*Flower depth* (*height*), *fertile flowers*.—About 4 mm to 5 mm.

*Flower diameter, sterile flowers*.—About 3.5 cm to 4 cm.

*Flower depth* (*height*), *sterile flowers*.—About 1.5 cm.

*Flower shape, fertile flowers*.—Deltoid.

*Flower shape, sterile flowers*.—Deltoid.

*Flower buds, fertile flowers*.—Length: About 1.5 mm. Diameter: About 1.5 mm to 2 mm. Shape: Flattened globular. Color: Close to 142B to 142C and 149B to 149C.

*Flower buds, sterile flowers*.—Length: About 1.5 mm. Diameter: About 2 mm to 3 mm. Shape: Flattened globular. Color: Close to 142B to 142C and 149B to 149C.

*Petals, fertile flowers only*.—Quantity and arrangement: Five in a single whorl; valvate. Length: About 3 mm to 3.5 mm. Width: About 2 mm. Shape: Roughly deltoid. Apex: Acute. Base: Rounded. Margin: Entire. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Rough, glabrous. Color: When opening, upper surface: Close to N66A to N66B. When opening, lower surface: Close to 62A; towards the margins, close to 69B. Fully opened, upper surface: Close to 75B and 68B to 68C; color becoming closer to 65C and 62B to 62C with development. Fully opened, lower surface: Close to 64C to 64D and 65C with development.

*Sepals, fertile flowers*.—Quantity and arrangement: Five in a single whorl; imbricate. Length: About 5 mm. Width: About 2 mm. Shape: Deltoid. Apex: Acute. Base: Rounded. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; velvety. Color: When opening, upper and lower surfaces: Close to N66A to N66B. Fully opened, upper surface: Close to 75B and 68B to 68C; color becoming closer to 75B to 75C, 62B to 62C and 68B to 68C with development. Fully opened, lower surface: Close to 69B to 69C and 62C; color becoming closer to 75B to 75C, 62B to 62C and 68B to 68C with development.

*Sepals, sterile flowers*.—Quantity and arrangement: Five in a single whorl; imbricate. Length: About 1.6 cm to 2.2 cm. Width: About 1.5 cm to 2 cm. Shape: Deltoid. Apex: Subacute to rounded. Base: Rounded. Margin: Entire. Texture, upper surface: Smooth, glabrous. Texture, lower surface: Rugose, glabrous. Color: When opening, upper and lower surfaces: Close to N66A to N66B. Fully opened, upper surface: Close to 75B and 68B to 68C; color becoming closer to 75B to 75C, 62B to 62C and 68B to 68C with development. Fully opened, lower surface: Close to 69B to 69C and 62C; color becoming closer to 75B to 75C, 62B to 62C and 68B to 68C with development.

*Pedicels, fertile flowers*.—Length: About 2 mm to 3.5 mm. Diameter: About 1 mm to 2 mm. Strength: Moderately strong. Aspect: Upright to slightly slanted. Texture: Smooth, glabrous. Color: Close to 55B.

*Pedicels, sterile flowers*.—Length: About 2 cm. Diameter: About 2 mm. Strength: Strong. Aspect: About 30° to 35° from vertical. Texture: Smooth, glabrous. Color: Close to 57B and 58B to 58C.

*Reproductive organs, fertile flowers only*.—Stamens: Quantity per flower: About eight. Filament length: About 1 mm to 2 mm. Filament color: Close to 69C. Anther length: Less than 1 mm. Anther shape: Two-lobed, conical. Anther color: Close to N155B to N155D. Pollen amount: Abundant. Pollen color: Close to 155D. Pistils: Pistil quantity per flower: About three. Pistil length: About 2 mm. Stigma shape: Club-shaped. Stigma color: Close to 155B. Style length: About 2 mm. Style color: Close to N155B to N155C.

*Seeds*.—Quantity: Numerous. Color: Close to 200C.

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

Temperature tolerance: Plants of the new *Hydrangea* have been shown to be tolerant to temperatures ranging from −5° C. to 35° C.

It is claimed:

**1**. A new and distinct *Hydrangea* plant named 'SCHROLL139-09-01a' as illustrated and described.

* * * * *