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Arts

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(54) **HYDRANGEA PLANT NAMED ‘H213904’**

(50) Latin Name: *Hydrangea macrophylla*
Varietal Denomination: **H213904**

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(72) Inventor: **Niels Arts**, Aalsmeer (NL)

(73) Assignee: **Hydrangea Breeders Association B.V.**,
De Kwakel (NL)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 120 days.

(21) Appl. No.: **13/999,844**

(22) Filed: **Mar. 27, 2014**

(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.

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(57) **ABSTRACT**

A new and distinct cultivar of *Hydrangea* plant named
‘H213904’, characterized by its upright and somewhat out-
wardly spreading plant habit; vigorous growth habit; freely
branching habit; strong and sturdy stems; freely and uni-
formly flowering habit; and lacecap-type inflorescences with
large sterile flowers that are red purple in color.

1 Drawing Sheet

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Botanical designation: *Hydrangea macrophylla*.
Cultivar denomination: ‘H213904’.

**CROSS-REFERENCED TO CLOSELY RELATED
APPLICATIONS**

Title: *Hydrangea* Plant Named ‘H213905’
Applicant: Niels Arts
Filed: Concurrently with this application and having U.S.
Plant patent application Ser. No. 13/999,843.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Hydrangea* plant, botanically known as *Hydrangea mac-*
rophylla, commercially referred to as a lacecap-type *Hydran-*
gea and hereinafter referred to by the name ‘H213904’.

The new *Hydrangea* plant is a product of a planned breed-
ing program conducted by the Inventor in De Kwakel, The
Netherlands and Glandorf, Germany. The objective of the
breeding program was to create new freely-branching
Hydrangea plants with strong sturdy stems, large inflores-
cences, attractive flower color and good postproduction lon-
gevity.

The new *Hydrangea* plant originated from a cross-pollina-
tion made by the Inventor in April, 2008 in De Kwakel, The
Netherlands, of a proprietary selection of *Hydrangea macro-*
phylla identified as code name SD, not patented, as the
female, or seed, parent with a proprietary selection of
Hydrangea macrophylla identified as code number 01-0186-
046, not patented, as the male, or pollen, parent. The new
Hydrangea plant was discovered and selected by the Inventor
as a single flowering plant from within the progeny of the
stated cross-pollination in a controlled greenhouse environ-
ment in Glandorf, Germany in May, 2010.

Asexual reproduction of the new *Hydrangea* plant by veg-
etative cuttings in a controlled environment in Glandorf, Ger-
many since June, 2010 has shown that the unique features of

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this new *Hydrangea* plant are stable and reproduced true to
type in successive generations.

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 geno-
type.

The following traits have been repeatedly observed and are
determined to be the unique characteristics of ‘H213904’.
These characteristics in combination distinguish ‘H213904’
as a new and distinct *Hydrangea* plant:

1. Upright and somewhat outwardly spreading plant habit.
2. Vigorous growth habit; freely branching habit.
3. Strong and sturdy stems.
4. Freely and uniformly flowering habit.
5. Large lacecap-type inflorescences with large sterile
flowers that are red purple in color.

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

1. Plants of the new *Hydrangea* and the female parent
selection differ in inflorescence form as plants of the
female parent selection have mophead-type inflores-
cences.
2. Plants of the new *Hydrangea* and the female parent
selection differ in sterile flower sepal color as sterile
flowers of plants of the female parent selection have
pink-colored sepals.

Plants of the new *Hydrangea* can be compared to plants of
the male parent selection. Plants of the new *Hydrangea* differ
primarily from plants of male parent selection in branching
habit as plants of the new *Hydrangea* are more freely branch-
ing than plants of the male parent selection.

Plants of the new *Hydrangea* can be compared to plants of *Hydrangea macrophylla* 'H213905', disclosed in U.S. Plant patent application Ser. No. 13/999,843. Plants of the new *Hydrangea* differ primarily from plants of 'H213905' in sterile flower sepal color as sterile flowers of plants of the new *Hydrangea* have darker-colored sepals than sterile flowers of plants of 'H213905'.

Plants of the new *Hydrangea* can be compared to plants of the *Hydrangea hybrida* '1301', disclosed in U.S. Plant Pat. No. 16,264. In side-by-side comparisons conducted in De Kwakel, The Netherlands, plants of the new *Hydrangea* differed from plants of '1301' in the following characteristics:

1. Plants of the new *Hydrangea* had stronger stems than plants of '1301'.
2. Plants of the new *Hydrangea* had larger sterile and larger fertile flowers than plants of '1301'.
3. Plants of the new *Hydrangea* and '1301' differed in sterile flower sepal color as sterile flowers of plants of '1301' had pink-colored sepals.

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 at the top of the sheet is a side perspective view of a typical flowering plant in a container.

The photograph at the bottom of the sheet is a close-up view of a typical inflorescence of 'H213904'.

DETAILED BOTANICAL DESCRIPTION

Plants used in the aforementioned photographs and in the following description were grown during the summer in 15-cm containers in a glass-covered greenhouse in De Kwakel, The Netherlands and under cultural practices typical of commercial *Hydrangea* production. During the production of the plants, day and night temperatures averaged 17° C. Plants of the new *Hydrangea* were one year old when the photograph and description were taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used.

Botanical description: *Hydrangea macrophylla* 'H213904'.

Parentage:

Female, or seed, parent.—Proprietary selection of *Hydrangea macrophylla* identified as code name SD, not patented.

Male, or pollen, parent.—Proprietary selection of *Hydrangea macrophylla* identified as code number 01-0186-046, not patented.

Propagation:

Type cutting.—By vegetative cuttings.

Time to initiate roots, summer.—About two weeks at temperatures about 23° C.

Time to initiate roots, winter.—About 18 days at temperatures about 18° C.

Time to produce a rooted young plant, summer.—About four weeks at temperatures about 23° C.

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

Root description.—Thick; whitish brown in color.

Rooting habit.—Freely branching; dense.

Plant description:

Plant and growth habit.—Upright and somewhat outwardly spreading plant habit; rounded in shape; strong and sturdy stems; rapid growth rate and vigorous growth habit.

Plant height.—About 30 cm to 40 cm.

Plant diameter or area of spread.—About 40 cm to 60 cm.

Lateral branch description:

Branching habit.—Freely branching habit with about eight lateral branches per plant.

Length.—About 20 cm to 30 cm.

Diameter.—About 5 mm to 6 mm.

Internode length.—About 4 cm to 5 cm.

Stem texture.—Smooth, glabrous.

Strength.—Strong, sturdy.

Color.—Close to 147C, overlain with close to 187C; lenticels, close to 187D; woody, close to 177C.

Leaf description:

Arrangement.—Opposite, simple.

Length.—About 10 cm to 12 cm.

Width.—About 6.5 cm to 7.5 cm.

Shape.—Ovate.

Apex.—Acute.

Base.—Obtuse.

Margin.—Dentate.

Texture, upper surface.—Smooth to rugose, glabrous.

Texture, lower surface.—Rugose, glabrous.

Venation pattern.—Pinnate.

Color.—Developing leaves, upper surface: Close to 147A. Developing leaves, lower surface: Close to 147D. Fully expanded leaves, upper surface: Close to 147B; venation, close to 145B. Fully expanded leaves, lower surface: Close to 147D; venation, close to 145C.

Petioles.—Length: About 2 cm. Diameter: About 4 mm.

Texture, upper and lower surfaces: Smooth, glabrous.

Color, upper and lower surfaces: Close to 145C.

Flower description:

Flower type and habit.—Showy sterile flowers and small star-shaped fertile flowers arranged on lacecap-type terminal panicles; panicles globular to flattened globular in shape; flowers face upright to mostly outwardly.

Fragrance.—None detected.

Natural flowering season.—Plants begin flowering about three months after planting; short production time as a cooling treatment is not required for flower development; continuous flowering throughout the summer in Northern Europe.

Flower longevity.—Sterile flowers last about four months on the plant, sterile flowers persistent; fertile flowers last about one month on the plant, fertile flowers not persistent.

Quantity of flowers.—Freely flowering habit; about 30 to 50 sterile flowers per panicle and about 100 to 130 fertile flowers per panicle.

Panicle height.—About 6 cm to 8 cm.

Panicle diameter.—About 17 cm.

Sterile flower buds.—Length: About 5 mm. Diameter: About 3 mm. Shape: Spherical. Color: Close to 145C.

Fertile flower buds.—Length: About 3 mm. Diameter: About 3 mm. Shape: Spherical. Color: Close to 145C.

Sterile flower diameter.—About 4 cm to 5 cm.

Sterile flower depth (height).—About 1 cm.

Fertile flower diameter.—About 5 mm.

Fertile flower depth (height).—About 5 mm.

Petals, fertile flowers only, sterile flowers without petals.—Quantity and arrangement: Five in a single whorl. Length: About 5 mm. Width: About 3 mm. Shape: Ovate. Apex: Acute. Base: Cuneate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper and lower surfaces: Close to 145D. Fully opened, upper and lower surfaces: Close to 66D; color does not change with development.

Sepals, sterile flowers.—Quantity and arrangement: Four in a single whorl. Length: About 2 cm. Width: About 2 cm to 2.5 cm. Shape: Roughly deltoid. Apex: Acute. Base: Cuneate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper and lower surfaces: Close to 145D. Fully opened, upper surface: Close to 57C; under acidic soil conditions, color becomes closer to between 90B and 96B. Fully opened, lower surface: Close to 73D; under acidic soil conditions, color becomes closer to between 90B and 96B.

Sepals, fertile flowers.—Quantity and arrangement: Five in a single whorl. Length: About 3 mm. Width: About 3 mm. Shape: Ovate. Apex: Acute. Base: Obtuse. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper and lower surfaces: Close to 145D. Fully opened, upper and lower surfaces: Close to 145D; color does not change with development.

Pedicels, sterile flowers.—Length: About 1 cm to 3 cm.

Diameter: About 2 mm. Strength: Strong. Texture: Smooth, glabrous. Color: Close to 73C.

Pedicels, fertile flowers.—Length: About 3 mm to 5 mm.

Diameter: About 1.5 mm to 2 mm. Strength: Strong. Texture: Smooth, glabrous. Color: Close to 145D.

Reproductive organs, fertile flowers only; sterile flowers without reproductive organs.—Stamens: Quantity per flower: Eight. Filament length: About 1 mm. Filament color: Close to 75A. Anther shape: Conical. Anther length: About 1 mm. Anther color: Close to 155C. Pollen amount: Abundant. Pollen color: Close to 155D. Pistils: Pistil quantity per flower: Three. Pistil length: About 3 mm. Stigma shape: Oval. Stigma color: Close to 155B. Style length: About 1 mm. Style color: Close to 69B. Ovary color: Close to 69B.

Seeds.—Quantity per flower: About 20 to 30. Length: About 0.5 mm. Diameter: About 0.1 mm. Color: Close to 200C.

Disease & pest resistance: Under commercial production conditions, 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 about 3° C. to about 38° C.

It is claimed:

1. A new and distinct *Hydrangea* plant named 'H213904' as illustrated and described.

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