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Arts

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(54) **HYDRANGEA PLANT NAMED ‘H213902’**

(50) Latin Name: *Hydrangea macrophylla*
Varietal Denomination: **H213902**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**
USPC **Plt./250**

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(57) **ABSTRACT**

A new and distinct cultivar of *Hydrangea* plant named
‘H213902’, characterized by its upright and outwardly
spreading plant habit; vigorous growth habit; freely branch-
ing habit; strong and sturdy stems; freely and uniformly flow-
ering habit; and large mophead-type inflorescences with
numerous large white-colored sterile flowers.

1 Drawing Sheet

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Botanical designation: *Hydrangea macrophylla*.
Cultivar denomination: ‘H213902’.

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 mophead-type
Hydrangea and hereinafter referred to by the name
‘H213902’.

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 number 01-0215-010, not patented,
as the female, or seed, parent with a proprietary selection of
Hydrangea macrophylla identified as code number 08-0004-
000, 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
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

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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 ‘H213902’.
These characteristics in combination distinguish ‘H213902’
as a new and distinct *Hydrangea* plant:

1. Upright and outwardly spreading plant habit.
2. Vigorous growth habit; freely branching habit.
3. Strong and sturdy stems.
4. Freely and uniformly flowering habit.
5. Large mophead-type inflorescences with numerous
large white-colored sterile flowers.

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
branching habit as plants of the new *Hydrangea* are more
freely branching than plants of the female parent selection.

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 growth habit
as plants of the new *Hydrangea* are larger and more vigorous
than plants of the male parent selection.

Plants of the new *Hydrangea* can be compared to plants of
the *Hydrangea hybrida* ‘801’, disclosed in U.S. Plant Pat. No.
16,204. In side-by-side comparisons conducted in De
Kwakel, The Netherlands, plants of the new *Hydrangea* dif-
fered from plants of ‘801’ in the following characteristics:

1. Plants of the new *Hydrangea* were larger and more
vigorous than plants of ‘801’.
2. Plants of the new *Hydrangea* were more freely branch-
ing than plants of ‘801’.
3. Plants of the new *Hydrangea* had stronger stems than
plants of ‘801’.
4. Plants of the new *Hydrangea* had larger inflorescences
and flowers than plants of ‘801’.

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 comprises a top perspective view of a typical flowering plant of 'H213902' grown in a container.

The photograph at the bottom of the sheet is a close-up view of typical inflorescences of 'H213902'.

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* 'H213902'.
Parentage:

Female, or seed, parent.—Proprietary selection of *Hydrangea macrophylla* identified as code number 01-0215-010, not patented.

Male, or pollen, parent.—Proprietary selection of *Hydrangea macrophylla* identified as code number 08-0004-000, 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 outwardly spreading plant habit; rounded in shape; strong and sturdy stems; rapid growth rate and vigorous growth habit.

Plant height.—About 40 cm to 50 cm.

Plant diameter or area of spread.—About 50 cm to 70 cm.

Lateral branch description:

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

Length.—About 35 cm to 40 cm.

Diameter.—About 6 mm to 8 mm.

Internode length.—About 5 cm to 7 cm.

Stem texture.—Smooth, glabrous.

Strength.—Strong, sturdy.

Color.—Close to 147C, overlain with close to 187C; lenticels, close to 186B; color becoming closer to 147C, overlain with close to 186C; with further with development, color becoming closer to 177C.

Leaf description:

Arrangement.—Opposite, simple.

Length.—About 12 cm to 15 cm.

Width.—About 10 cm to 11 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 146B. Fully expanded leaves, lower surface: Close to 147D; venation, close to 146C.

Petioles.—Length: About 4 cm. Diameter: About 5 mm to 6 mm. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: Close to 145B.

Flower description:

Flower type and habit.—Large showy sterile flowers and small, inconspicuous star-shaped fertile flowers arranged on mophead-type terminal panicles; panicles globular in shape; flowers face upright to 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 during 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 80 to 100 sterile flowers per panicle and about 25 to 30 fertile flowers per panicle.

Panicle height.—About 11 cm to 13 cm.

Panicle diameter.—About 20 cm to 23 cm.

Sterile flower buds.—Length: About 6 mm. Diameter: About 4 mm. Shape: Spherical. Color: Close to 145C.

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

Sterile flower diameter.—About 4.5 cm to 6.5 cm.

Sterile flower depth (height).—About 2 cm.

Fertile flower diameter.—About 3 mm to 4 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 4 mm. Width: About 2 mm. Shape: Ovate. Apex: Acute. Base: Attenuate. 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 155B; color does not change with development.

Sepals, sterile flowers.—Quantity and arrangement: Four in a single whorl. Length: About 2 cm to 4 cm.

Width: About 2.5 cm to 4 cm. Shape: Roughly deltoid to orbicular. Apex: Acute to obtuse. Base: Cuneate to obtuse. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper and lower surfaces: Close to 145C. Fully opened, 5 upper and lower surfaces: Close to 155B; color does not change with development.

Sepals, fertile flowers.—Quantity and arrangement: Five in a single whorl. Length: About 2 mm. Width: About 1.5 mm. Shape: Ovate. Apex: Acute. Base: 10 Obtuse. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper and lower surfaces: Close to 145B. Fully opened, upper and lower surfaces: Close to 145D; color does not change with development. 15

Pedicels, sterile flowers.—Length: About 1 cm to 3 cm. Diameter: About 2 mm to 5 mm. Strength: Strong. Texture: Smooth, glabrous. Color: Close to 155C.

Pedicels, fertile flowers.—Length: About 5 mm to 8 mm. Diameter: About 1.5 mm to 2 mm. Strength: Strong. 20 Texture: Smooth, glabrous. Color: Close to 155B.

Reproductive organs, fertile flowers only; sterile flowers without reproductive organs.—Stamens: Quantity

per flower: Eight. Filament length: About 3 mm. Filament color: Close to 155B. Anther shape: Conical. Anther length: About 1 mm. Anther color: Close to 155B. Pollen amount: Abundant. Pollen color: Close to 155D. Pistils: Pistil quantity per flower: Three. Pistil length: About 3 mm to 4 mm. Stigma shape: Oval. Stigma color: Close to 155B. Style length: About 1 mm to 2 mm. Style color: Close to 155B. Ovary color: Close to 155B.

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 'H213902' as illustrated and described.

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