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Kolster et al.

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(54) **HYDRANGEA PLANT NAMED**
'HOKOMATHYST'

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

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patent is extended or adjusted under 35
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A01H 5/00 (2006.01)

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

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

(56) **References Cited**

OTHER PUBLICATIONS

Anonymous. "*Hydrangea macrophylla* 'Hokomathyst' Everlasting
Amethyst" Plants Nouveau. Available at: <http://www.plantsnouveau.com/plant/hydrangea-macrophylla-everlasting-amethyst/> accessed
Jul. 17, 2011.*

UPOV ROM GTITM Computer Database, GTI Jouve Retrieval Soft-
ware 2011/01 Citation for 'Hokomathyst'.*

* cited by examiner

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(57) **ABSTRACT**

A new and distinct cultivar of *Hydrangea* plant named 'Hoko-
mathyst', characterized by its broadly upright plant habit;
strong erect stems; relatively small leaves; and mophead-type
inflorescences with red purple-colored flowers with green-
colored margins.

2 Drawing Sheets

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Botanical designation: *Hydrangea macrophylla*.
Cultivar denomination: 'HOKOMATHYST'.

CROSS-REFERENCED TO RELATED
APPLICATIONS

Title: *Hydrangea* Plant Named 'Hokomac'
(U.S. Plant patent application Ser. No. 12/658,051).
Title: *Hydrangea* Plant Named 'Hokomarevo'
U.S. Plant patent application Ser. No. 12/658,049.
Filed: Concurrently with this application

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Hydrangea* plant, botanically known as *Hydrangea mac-*
rophylla and hereinafter referred to by the name 'Hoko-
mathyst'.

The new *Hydrangea* plant is a naturally-occurring whole
plant mutation of *Hydrangea macrophylla* 'Xian', not pat-
ented. The new *Hydrangea* plant was discovered and selected
by the Inventors as a single flowering plant from within a
population of plants of 'Xian' in a controlled greenhouse
environment in Boskoop, The Netherlands in July, 2006.

Asexual reproduction of the new *Hydrangea* plant by veg-
etative cuttings in a controlled greenhouse environment in
Boskoop, The Netherlands since August, 2006, 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 environmental conditions. The phenotype may
vary somewhat with variations in environment and cultural

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practices 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 'Hoko-
mathyst'. These characteristics in combination distinguish
'Hokomathyst' as a new and distinct cultivar of *Hydrangea*
plant:

1. Broadly upright plant habit.
2. Strong erect stems.
3. Relatively small leaves.
4. Mophead-type inflorescences with red purple-colored
flowers with green-colored margins.

Plants of the new *Hydrangea* differ from plants of the
parent, 'Xian', in the following characteristics:

1. Plants of the new *Hydrangea* are more freely flowering
than plants of 'Xian'.
2. Plants of the new *Hydrangea* and 'Xian' differ in flower
color.

Plants of the new *Hydrangea* differ from plants of the
Hydrangeas 'Hokomac' (U.S. Plant patent application Ser.
No. 12/658,051) and 'Hokomarevo' (U.S. Plant patent appli-
cation Ser. No. 12/658,049) primarily in flower color.

Plants of the new *Hydrangea* can also be compared to
plants of *Hydrangea* 'Magical Diamond', not patented.
Plants of the new *Hydrangea* differ primarily from plants of
'Magical Diamond' in the following characteristics:

1. Plants of the new *Hydrangea* are more upright than
plants of 'Magical Diamond'.
2. Plants of the new *Hydrangea* have stronger stems than
plants of 'Magical Diamond'.
3. Inflorescences of plants of the new *Hydrangea* are flatter
than and not as globular as inflorescences of plants of
'Magical Diamond'.
4. Sterile flowers of plants of the new *Hydrangea* have
thicker and more durable sepals than sterile flowers of
plants of 'Magical Diamond'.

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 value 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 plant of 'Hokomathyst' grown in a container.

The photograph at the top of the second sheet is a close-up view of a typical inflorescence of 'Hokomathyst'.

The photograph at the bottom of the second sheet is a close-up view of typical leaf of 'Hokomathyst'.

DETAILED BOTANICAL DESCRIPTION

Plants used in the aforementioned photographs and in the following description were grown in two-liter containers during the late spring in a shaded glass-covered greenhouse in Boskoop, The Netherlands under conditions which closely approximate commercial production conditions. During the production of the plants, day and night temperatures ranged from 16° C. to 17° C. Plants of the new *Hydrangea* were two years old when the photographs and description were taken. 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.

Botanical description: *Hydrangea macrophylla* 'Hokomathyst'.

Parentage: Naturally-occurring whole plant mutation of *Hydrangea macrophylla* 'Xian', not patented.

Propagation:

Method.—By softwood cuttings.

Time to initiate roots, summer.—About three weeks at temperatures of 15° C. to 25° C.

Time to initiate roots, winter.—About five weeks at temperatures of 10° C. to 20° C.

Time to produce a rooted young plant, summer.—About six weeks at temperatures of 15° C. to 25° C.

Time to produce a rooted young plant, winter.—About ten weeks at temperatures of 10° C. to 20° C.

Root description.—Medium in thickness, fibrous; creamy white in color.

Rooting habit.—Moderately branching; medium in density.

Plant description:

Form/growth habit.—Upright plant habit; broad inverted triangle; strong erect stems; about ten lateral branches develop per plant, pinching enhances lateral branch development; moderately vigorous growth habit.

Plant height.—About 53.8 cm.

Plant diameter or area of spread.—About 65.7 cm.

Lateral branches.—Length: About 33.5 cm. Diameter: About 6 mm. Internode length: About 8.2 cm. Texture, developing and fully developed: Smooth, glabrous. Angle: Mostly erect to about 10° from vertical. Strength: Strong. Color, developing: Close to 144B. Color, fully developed: Close to 199B to 199C.

Foliage description:

Arrangement.—Opposite, simple.

Length.—About 13.2 cm.

Width.—About 10.7 cm.

Shape.—Broadly ovate.

Apex.—Broadly apiculate.

Base.—Rounded to slightly reniform.

Margin.—Serrate.

Texture, upper surface.—Smooth, glabrous; slightly rugose.

Texture, lower surface.—Smooth, glabrous.

Venation pattern.—Pinnate.

Color.—Developing leaves, upper surface: Close to 141A to 141B. Developing leaves, lower surface: Close to 138A to 138B. Fully expanded leaves, upper surface: Close to 137A; venation, close to 145B to 145C. Fully expanded leaves, lower surface: Close to 138B; venation, close to 145C. Petiole: Length: About 3.8 cm. Diameter: About 3.5 mm. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper surface: Close to 145A. Color, lower surface: Close to 145A to 145B.

Flower description:

Flower type and habit.—Single fertile and sterile flowers arranged on terminal mophead-type panicles; panicles flattened globular; sterile flowers face upright to outwardly and fertile flowers face upright.

Fragrance.—None detected.

Natural flowering season.—Continuous flowering from late spring to late summer in The Netherlands.

Flower longevity.—Sterile flowers last about three weeks on the plant; sterile flowers persistent.

Quantity of flowers.—Freely flowering habit; about 60 fertile flowers and about 120 sterile flowers per panicle.

Panicle height.—About 7.9 cm.

Panicle diameter.—About 14.1 cm.

Flower buds, fertile flowers.—Length: About 3 mm. Diameter: About 3 mm. Shape: Globular. Color: Close to 144A.

Flower buds, sterile flowers.—Length: About 8 mm. Diameter: About 4 mm. Shape: Ovate. Color: Close to 145A to 145B.

Fertile flowers.—Diameter: About 5 mm. Depth: About 4 mm. Shape: Rotate, campanulate. Petals: Quantity: Five. Length: About 3 mm. Width: About 1.2 mm. Shape: Ovate. Apex: Acute. Base: Fused. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper and lower surfaces: Close to 157A to 157B. Fully opened, upper and lower surfaces: Close to 157A to 157B. Sepals: None observed. Pedicels: Length: About 5 mm. Diameter: About 1 mm. Strength: Moderately strong. Angle: About 10° from vertical. Texture: Pubescent. Color: Close to 64D, towards the apex, close to 145D. Reproductive organs: Stamens: Quantity per flower: About five. Filament length: About 3.5 mm. Filament color: Close to 155C. Anther shape: Reniform. Anther length: About 0.7 mm. Anther color: Close to 161D. Pollen amount: Moderate. Pollen color: Close to 4D. Pistils: Pistil quantity per flower: About three. Pistil length: About 1.7 mm. Stigma shape: Club-shaped. Stigma color: Close to N155A. Style length: About 1 mm. Style color: Close to N155A. Ovary color: Close to N155A.

Sterile flowers.—Shape: Rotate. Diameter: About 3.3 cm. Depth (height): About 6 mm. Petals: Quantity: Four. Length: About 3 mm. Width: About 2 mm. Shape: Ovate. Apex: Acute. Base: Cuneate. Margin: Entire. Texture, upper and lower surfaces: Smooth, 5
glabrous. Color: When opening and fully opened, upper surface: Close to 75C. When opening and fully opened, lower surface: Close to 75B. Sepals: Quantity: Four. Length: About 1.7 cm. Width: About 1.8 cm. Shape: Broadly deltoid to orbicular. Apex: 10
Rounded to bluntly acute. Base: Cuneate. Margin: Entire with an occasional tooth. Texture, upper and lower surfaces: Smooth, glabrous. Color: When opening, upper surface: Close to 67B. When opening, lower surface: Close to 70C to 70D. Fully opened, 15
upper surface: Close to 67A to 67B, apex close to 146D; with development, close to 65A strongly tinged with close to between 144B and 145A. Fully opened, lower surface: Close to 68B; with develop-
ment, close to 63D flushed with close to 145B to 145C. Pedicels: Length: About 2.4 cm. Diameter: 20
About 1.5 mm. Strength: Strong. Angle: About 35° from vertical. Texture: Pubescent. Color: Close to

64D. Reproductive organs: Stamens: Quantity per flower: About eight. Filament length: About 2.5 mm. Filament color: Close to 155C. Anther shape: Reniform. Anther length: About 0.7 mm. Anther color: Close to 161D. Pollen amount: Moderate. Pollen color: Close to 4D. Pistils: Pistil quantity per flower: About two. Pistil length: About 1.7 mm. Stigma shape: Club-shaped. Stigma color: Close to N155A. Style length: About 1 mm. Style color: Close to N155A. Ovary color: Close to N155A. Fruits/seeds: Fruit and seed development have not been observed on plants of the new *Hydrangea*.

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

Temperature tolerance: Plants of the new *Hydrangea* have been shown to be tolerant to temperatures ranging from about -20° C. to about 40° C.

It is claimed:

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

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