



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

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

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

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patent is extended or adjusted under 35  
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(58) **Field of Classification Search**  
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(57) **ABSTRACT**

A new cultivar of *Hydrangea macrophylla* named 'HORT-  
MABRID' that is characterized by its globular shaped inflo-  
rescence, its very sturdy sterile flowers, its sterile flowers with  
bright pure white sepals that have a high tolerance to sunlight,  
and its good cut flower quality lasting at least 2 weeks as a  
fresh cut (white color) and for many months when flowers age  
(when classic green).

**2 Drawing Sheets**

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Botanical classification: *Hydrangea macrophylla*.  
Varietal denomination: 'HORTMABRID'.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar  
of *Hydrangea macrophylla* and will be referred to hereafter  
by its cultivar name, 'HORTMABRID'. 'HORTMABRID'  
represents a new mophead type *Hydrangea*, a deciduous  
shrub grown for use as a landscape plant, potted plant and as  
a cut flower.

The new cultivar was derived from a controlled breeding  
program conducted by the Inventor in Boskoop, The Nether-  
lands. The Inventor made a cross in May 2004 between  
unnamed proprietary plants in the Inventor's breeding pro-  
gram, reference no. 02-011-01, as the female parent and  
reference no. 97-028-13 as the male parent. The Inventor  
selected 'HORTMABRID', in June 2012 as a single unique  
plant amongst the seedlings that resulted from the above  
cross.

Asexual propagation of the new cultivar was first accom-  
plished by the Inventor by softwood stem cuttings in Bosk-  
oop, The Netherlands in July 2006. Asexual propagation by  
softwood stem cuttings has determined that the characteris-  
tics of the new cultivar are stable and are reproduced true to  
type in successive generations.

**SUMMARY OF THE INVENTION**

The following traits have been repeatedly observed and  
represent the characteristics of the new cultivar. These  
attributes in combination distinguish 'HORTMABRID' as a  
unique cultivar of *Hydrangea*.

1. 'HORTMABRID' exhibits a globular shaped inflores-  
cence.

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2. 'HORTMABRID' exhibits very sturdy sterile flowers  
both as fresh flowers and as they become classic (aged  
form).
3. 'HORTMABRID' exhibits sterile flowers with bright  
and pure white sepals that have a high tolerance to sun-  
light.
4. 'HORTMABRID' exhibits a good cut flower quality  
lasting at least 2 weeks as a fresh cut (white color) and  
for many months when flowers age (when classic green).

The female parent of 'HORTMABRID', reference no.  
02-011-01, differs from 'HORTMABRID' in having sterile  
flowers with softer sepals that are more susceptible to burning  
in sunlight. The male parent of 'HORTMABRID', reference  
no. 97-028-13, differs from 'HORTMABRID' in having pink  
sterile flowers and in flowering later in the season. 'HORT-  
MABRID' can be most closely compared to the cultivars  
'Napo' (U.S. Plant Pat. No. 20,614) and 'Snowball' (not pat-  
ented). 'Napo' is similar to 'HORTMABRID' in having white  
flowers and in having sturdy sterile flowers. 'Napo' differs  
from 'HORTMABRID' in being shorter in height, in having  
sterile flowers with smaller sepals, and in having more flow-  
ers per inflorescence. 'Snowball' is similar to 'HORT-  
MABRID' in having white flowers. 'Snowball' differs from  
'HORTMABRID' in being much taller in height and in hav-  
ing sterile flowers that fade and are of less quality as the  
flowers mature.

**BRIEF DESCRIPTION OF THE DRAWINGS**

The accompanying colored photographs illustrate the over-  
all appearance and distinct characteristics of the new *Hydran-  
gea*, 'HORTMABRID', as grown in a 17-cm container in a  
shaded greenhouse in Boskoop, The Netherlands. The pho-  
tographs were taken of a two year-old plant of 'HORT-  
MABRID' as grown in a 17-cm container.

The photograph in FIG. 1 provides a side view of a plant of 'HORTMABRID'.

The photograph in FIG. 2 provides a close-up view of an inflorescence of 'HORTMABRID'.

The photograph in FIG. 3 provides a close-up view of the foliage of 'HORTMABRID'.

The 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 *Hydrangea*.

#### BOTANICAL DESCRIPTION OF THE PLANT

The following is a detailed description of two year-old plants of 'HORTMABRID' as grown in a shaded greenhouse in 17-cm containers in Boskoop, The Netherlands. Phenotypic differences may be observed with variations in environmental, climatic, and cultural conditions. The color determination is in accordance with The 2007 R.H.S. Colour Chart of The Royal Horticultural Society, London, England, except where general color terms of ordinary dictionary significance are used.

##### General description:

*Blooming period.*—Commences in May and blooms for 4 months as greenhouse grown plants in Boskoop, the Netherlands.

*Plant type.*—Deciduous shrub, mophead type *Hydrangea*.

*Plant habit.*—Broad upright.

*Height and spread.*—Reaches about 46 cm in height and 64 cm in spread.

*Hardiness.*—At least in U.S.D.A. Zones 5 to 9.

*Environmental conditions.*—Flowers have a high tolerance to sunlight, moderate tolerance to wind, and moderate to high tolerance to rain.

*Diseases resistance.*—No particular susceptibility or resistance to diseases or pests has been observed.

*Root description.*—Fine and fibrous.

*Propagation.*—Softwood stem cuttings.

*Growth rate and vigor.*—Moderate.

##### Stem description:

*Stem shape.*—Rounded.

*Stem strength.*—Strong.

*Stem color.*—New growth; 144A to 144B suffused with 187B to 187C at the nodes, mature growth; a blend of 165B to 165C and N199D.

*Stem size.*—Average of 32.2 cm in length and 7 mm in diameter.

*Stem surface.*—Glabrous, sparsely to moderately lenticellate, lenticles; 5 per cm<sup>2</sup>, an average of 2 mm in length and 1 mm in width, N186C in color.

*Internode length.*—Average of 6 cm.

*Branching.*—Average of 7 lateral branches without pinching.

##### Foliage description:

*Leaf shape.*—Ovate to broad ovate.

*Leaf arrangement.*—Opposite.

*Leaf division.*—Simple.

*Leaf base.*—Obtuse to short attenuate.

*Leaf apex.*—Broad apiculate.

*Leaf margins.*—Serrate.

*Leaf venation.*—Pinnate, upper surface 144C and lower surface a blend of 144D and 145B in color.

*Leaf size.*—Matures to an average of 13.3 cm in length and 9 cm in width.

*Leaf attachment.*—Petiolate.

*Leaf surface.*—Upper and lower surface; glabrous and very slightly rugose.

*Leaf color.*—Young foliage upper surface a blend of 143C and 144A and young foliage lower surface; 144A to 144B, mature foliage upper surface; N137A, mature foliage lower surface; 147B.

*Petioles.*—An average of 3.2 cm in length and 3 mm in diameter, color; upper surface 144B and lower surface 145A, surface glabrous and moderately glossy.

##### Inflorescence description:

*Inflorescence type.*—Terminal panicle, mophead in form comprised of a center region of fertile flowers surrounded by many single sterile flowers.

*Lastingness of inflorescence.*—Persistent for 4 months with white coloration retained for about 6 weeks (depending on growing conditions).

*Lastingness as a cut flower.*—White color is retained for 2 weeks as a fresh cut and for several months as an aged flower (when "classic").

*Inflorescence substance.*—Sturdy sterile flowers as the sepals do not turn upside down or brown with age (classic).

*Inflorescence number.*—One per lateral or sublateral stem if pinched.

*Inflorescence size.*—Average of 11.4 cm in height and 19.7 cm in diameter.

*Flower number.*—Average of 180 sterile flowers and 60 fertile flowers per panicle.

*Flower fragrance.*—None.

*Flower aspect.*—Upright to outward and slightly drooping.

*Flower size.*—Sterile flowers; an average of 4.7 cm in diameter and 1.5 mm in depth, fertile flowers; an average of 9 mm in diameter and 9 mm in depth.

*Flower type.*—Rotate.

*Flower buds.*—Sterile flowers; average of 9 mm in length and diameter prior to opening, ovate in shape, 145D in color, fertile flowers; average of 3.5 mm in length and 4 mm in diameter, broad obovate in shape, 145D in color.

*Peduncles.*—Moderately strong, average of 3 cm in length and 2 mm in width, blend of 157C to 157D and 155A in color, surface is dull and glabrous.

*Pedicels.*—Sterile flowers; held at an average angle of 30° from vertical, an average of 2 cm in length and 1.5 mm in diameter, strong strength, NN155C to NN155D in color, surface glabrous, dull, and covered with lenticels an average of 0.5 mm in length and width, 61D in color, fertile flowers; held at an average angle of 15° from vertical, an average of 3 mm in length and 1 mm in diameter, moderate strength, a blend of 157C to 157D and 155A in color, surface is dull and glabrous.

*Petals.*—Fertile flowers; average of 5, rotate in arrangement, ovate and concave in shape, entire margin, acute apex, cuneate base, average of 4 mm in length and 2 mm in width, upper and lower surface glabrous and dull, color of upper and lower surface when opening and when fully opened NN155C to NN155D, color not fading, sterile flowers; an average of 5, rotate arrangement, acute apex, cuneate base, entire margins, ovate and concave in shape, an average of 3 mm in length and 2 mm in width, upper and lower surface; glabrous and dull, color; upper and lower surface

when opening and when fully open NN155C to NN155D, color not fading.

*Sepals*.—Sterile flowers; average of 4, rotate arrangement, broad rhomboidal to deltoid in shape, an average of 3 cm in length and 3.4 cm in width, broad bluntly acute apex, short acuminate base, upper and lower surface glabrous and dull, entire margins, color when opening upper surface; NN155D and lower surface; NN155C to NN155D, color when fully opened upper surface; NN155B to NN155C and lower surface; NN155B with NN155A to NN155B towards the margins, color changes to 145B on upper and lower surface, fertile flowers; 5, rotate in arrangement, ovate in shape, entire margin, acute apex, broad cuneate base, average of 3 mm in length and 0.15 mm in width, both surfaces are glabrous and dull, color of upper and lower surface when opening 157C to 157D, color of upper and lower surface when fully opened 157A to 157B.

Reproductive organs: (present on fertile flowers and occasionally on sterile flowers).

*Stamens*.—Sterile flowers; average of 8, anther is broad reniform in shape, an average of 0.5 mm in length and

NN155A in color, filament is 3 mm in length and NN155D in color, pollen is low to moderate in quantity and 155A in color, fertile flowers; average of 10, anther is broad reniform in shape, 0.5 mm in length and NN155A in color, filament is 3.5 mm in length and NN155D in color, pollen is moderate in quantity and 155A in color.

*Pistils*.—Sterile flowers; average of 3, an average of 1 mm in length, stigma is clavate in shape and NN155C to NN155D in color, style is an average of 0.5 mm in length and 157D in color, ovary is 157D in color, fertile flowers; average of 3, an average of 1.5 mm in length, stigma is clavate in shape and NN155C to NN155D in color, style is an average of 1 mm in length and 157D in color, ovary is 157C in color.

*Fruit and seed*.—Has not been observed to date.

It is claimed:

1. A new and distinct cultivar of *Hydrangea* plant named 'HORTMABRID' substantially as herein illustrated and described.

\* \* \* \* \*



FIG. 1



FIG. 2



FIG. 3