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**Heuger**

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(54) **HELLEBORUS PLANT NAMED ‘HL 1038’**

(50) Latin Name: *Helleborus niger X Helleborus x hybridus*  
Varietal Denomination: **HL 1038**

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

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(52) **U.S. Cl.**  
USPC ..... **Plt./439**

(58) **Field of Classification Search**  
USPC ..... Plt./263.1, 439  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

PP25,314 P2 \* 2/2015 Heuger ..... A01H 6/72  
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\* cited by examiner

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(57) **ABSTRACT**

A new and distinct cultivar of *Helleborus* plant named ‘HL 1038’ characterized by its upright to somewhat outwardly spreading and mounded plant habit; moderately vigorous to vigorous growth habit; dark green-colored leaflets with lighter green-colored venation; freely flowering habit; white-colored flowers; and good garden performance.

**2 Drawing Sheets**

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Botanical designation: *Helleborus niger X Helleborus x hybridus*.

Cultivar denomination: ‘HL 1038’.

STATEMENT REGARDING PRIOR DISCLOSURES BY INVENTOR/APPLICANT

An European Community Plant Breeder’s Rights application for the instant plant was filed by the Inventor/Applicant, Mr. Josef Heuger of Glandorf, Germany, on Dec. 1, 2022, application number 2022/2768. Foreign priority is not claimed to this application.

The Inventor/Applicant asserts that no publications nor advertisements relating to sales, offers for sale or public distribution occurred more than one year prior to the effective filing date of this application. Any information about the claimed plant would have been obtained from a direct or indirect disclosure from the Inventor or Applicant. Inventor/Applicant claims a prior art exception under 35 U.S.C. 102(b)(1) for disclosure and/or sales prior to the filing date but less than one year prior to the effective filing date.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Helleborus* plant, botanically known as *Helleborus niger X Helleborus x hybridus* and hereinafter referred to by the name ‘HL 1038’.

The new *Helleborus* plant is a product of a planned breeding program conducted by the Inventor in Glandorf, Germany. The objective of the breeding program was to create new uniform *Helleborus* plants with unique and attractive plant habit, leaf and flower coloration and tolerance to biotic and abiotic stresses.

The new *Helleborus* plant originated from a cross-pollination conducted by the Inventor in Glandorf, Germany in

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December, 2015 of a proprietary selection of *Helleborus niger* identified as code number P629, not patented, as the female, or seed, parent and a proprietary selection of *Helleborus x hybridus* identified as code number O1635, not patented, as the male, or pollen, parent. The new *Helleborus* plant was discovered and selected by the Inventor as a single flowering plant from within the progeny of the stated cross-pollination grown in a controlled greenhouse environment in Glandorf, Germany in December, 2017.

Asexual reproduction of the new *Helleborus* plant by in vitro axillary meristem culture in a controlled environment in Glandorf, Germany since April, 2018 has shown that the unique features of this new *Helleborus* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Helleborus* 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.

The following traits have been repeatedly observed and are determined to be the unique characteristics of ‘HL 1038’. These characteristics in combination distinguish ‘HL 1038’ as a new and distinct *Helleborus* plant:

1. Upright to somewhat outwardly spreading and mounded plant habit.
2. Moderately vigorous to vigorous growth habit.
3. Dark green-colored leaflets with lighter green-colored venation.
4. Freely flowering habit.
5. White-colored flowers.
6. Good garden performance.

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

1. Leaflets of plants of the new *Helleborus* are darker green in color than leaflets of plants of the female parent selection.
2. Flowers of plants of the new *Helleborus* are larger than flowers of plants of the female parent selection.

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

1. Leaflets of plants of the new *Helleborus* are darker green in color than leaflets of plants of the male parent selection.
2. Flowers of plants of the new *Helleborus* are larger than flowers of plants of the male parent selection.

Plants of the new *Helleborus* can also be compared to plants of *Helleborus niger* 'COSEH 1010', disclosed in U.S. Plant Pat. No. 25,314. In side-by-side comparisons, plants of the new *Helleborus* differ primarily from plants of 'COSEH 1010' in the following characteristics:

1. Leaves of plants of the new *Helleborus* are larger than leaves of plants of 'COSEH 1010'.
2. Flowers of plants of the new *Helleborus* are larger than flowers of plants of 'COSEH 1010'.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

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

The photograph on the first sheet (FIG. 1) is a side perspective view of a typical flowering plant of 'HL 1038' grown in a container.

The photograph on the second sheet (FIG. 2) is a close-up view of a typical flower and flower buds of 'HL 1038'.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations, measurements and values describe plants grown during the autumn in 17-cm containers in a glass-covered greenhouse in Glandorf, Germany and under cultural practices typical of commercial *Helleborus* production. During the production of the plants, day temperatures ranged from 12 C to 32 C and night temperatures ranged from 5 C to 12 C. Plants were 48 weeks old when the photographs were taken and 14 months old when the description was taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2015 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Helleborus niger* X *Helleborus* x *hybridus* 'HL 1038'.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Helleborus niger* identified as code number P629, not patented.

*Male, or pollen, parent.*—Proprietary selection of *Helleborus* x *hybridus* identified as code number O1635, not patented.

Propagation:

*Type.*—In vitro axillary meristem culture.

*Time to initiate roots, winter.*—About 55 days at temperatures about 12 C.

*Time to produce a rooted young plant, winter.*—About 170 days at temperatures ranging from about 4 C to 15 C.

*Root description.*—Thick to thin, fleshy; typically white to brownish in color, actual color of the roots is dependent on substrate composition, water quality, fertilizer type and formulation, substrate temperature and physiological age of roots.

*Rooting habit.*—Low branching; sparse.

Plant description:

*Plant and growth habit.*—Herbaceous perennial; upright to somewhat outwardly spreading and mounding plant habit with flowers held within and slightly above the foliar plane; plant shape, flattened globular; moderately vigorous to vigorous growth habit and moderate growth rate.

*Plant height, soil level to top of foliar plane.*—About 24.1 cm.

*Plant height, soil level to top of flowers.*—About 30.6 cm.

*Plant diameter (area of spread).*—About 41.8 cm.

Leaf description:

*Arrangement.*—Leaves arranged in a basal rosette; leaves palmately compound with typically five, or occasionally, seven, leaflets per leaf.

*Leaf length.*—About 17.1 cm.

*Leaf width.*—About 18.9 cm.

*Leaflet length.*—About 10.6 cm.

*Leaflet width.*—About 6.1 cm.

*Leaf shape.*—Palmate; roughly reniform in outline.

*Leaflet shape.*—Elliptic to obovate.

*Leaflet apex.*—Acute.

*Leaflet base.*—Attenuate.

*Leaflet margin.*—Serrate; moderately and coarsely undulate.

*Leaflet texture and luster, upper surface.*—Smooth, glabrous; coriaceous and tough; moderately glossy to glossy.

*Leaflet texture and luster, lower surface.*—Smooth, glabrous; coriaceous and tough; moderately glossy.

*Leaflet venation pattern.*—Pinnate and reticulate.

*Leaflet color.*—Developing leaflets, upper surface: Close to 137B; at the base, close to 183A. Developing leaflets, lower surface: Close to 146B; mid-vein, close to 147C and proximally, tinged with close to 183C and 183D. Fully developed leaflets, upper surface: Darker than a blend of 139A and 147A; at the base, tinged with close to 200A; venation, close to 146D. Fully developed leaflets, lower surface: Close to 147B; venation, close to 145A.

*Petioles.*—Length: About 18.1 cm. Diameter: About 7 mm by 8 mm. Strength: Strong. Texture and luster, upper and lower surfaces: Smooth, glabrous; slightly glossy. Color, upper surface: Close to 143B; sparsely to moderately covered with fine dots, close to N186C and proximally, closer to 187A. Color, lower surface: Close to 144B; sparsely to moderately covered with fine dots, close to N186C and proximally, more heavily covered with fine dots, close to 187A.

## Flower description:

*Flower shape and habit.*—Single rotate bowl-shaped flowers arranged in panicles; freely flowering habit with about two flowers per inflorescence and about 26 flowers and flower buds per plant; flowers face mostly outwardly.

*Fragrance.*—None detected.

*Natural flowering season.*—Plants begin flowering about ten months after planting; plants flower naturally from late autumn into the winter in Germany.

*Flower longevity on the plant.*—About ten days; sepals persistent, other flower parts are not persistent.

*Flower buds.*—Length: About 2.5 cm. Diameter: About 1.2 cm. Shape: Ovate. Texture and luster: Smooth, glabrous; slightly glossy. Color: Close to 150D; towards the apex, close to 157C.

*Inflorescence height (including peduncle).*—About 26.4 cm.

*Inflorescence diameter.*—About 13.9 cm.

*Flower diameter.*—About 10.5 cm.

*Flower depth.*—About 4 cm.

*Petals.*—All petals are transformed into nectaries.

*Sepals.*—Quantity and arrangement: About five arranged in a single whorl. Length: About 5.9 cm. Width: About 5.6 cm. Shape: Broadly ovate; slightly concave. Apex: Broadly to bluntly acute to close to obtuse. Base: Cuneate. Margin: Entire; slightly and coarsely undulate. Texture and luster, upper and lower surfaces: Smooth, glabrous; slightly glossy. Color: When opening, upper surface: Close to 157C to 157D; towards the base, close to 145A to 145B. When opening, lower surface: Close to 150D and 157C to 157D. Fully opened, upper surface: Close to 155A; towards the base, close to 145B; venation, similar to lamina colors; color does not change with subsequent development. Fully opened, lower surface: Close to 157C to 157D; venation, close to 157C to 157D; color does not change with subsequent development.

*Flower bracts.*—Quantity per flower: Typically one. Length: About 11.5 cm. Width: About 7.2 cm. Shape: Ovate to obovate. Apex: Acute to three-lobed. Base: Truncate to cuneate. Margin: Mostly entire; distally, serrate; coarsely undulate. Color, upper surface: Darker than NN137A; at the base, close to 145A; midvein, occasionally tinged with close to N186C. Color, lower surface: Close to 147B; midvein, slightly tinged with close to 187A.

*Peduncles.*—Length: About 22.3 cm. Diameter: About 7 mm to 9 mm. Aspect: About 10 degrees from vertical. Strength: Strong. Texture and luster: Smooth, glabrous; moderately glossy. Color: Close to 145A; moderately to heavily covered with fine dots, close to 184A.

*Pedicels.*—Length: About 3.4 cm. Diameter: About 0.4 mm. Aspect: About 15 degrees from peduncle axis. Strength: Moderately strong. Texture and luster: Smooth, glabrous; slightly glossy. Color: Close to 144B; moderately to heavily covered with fine dots, close to 183B.

*Reproductive organs.*—Stamens: Quantity per flower: About 135. Filament length: About 1.9 cm. Filament color: Close to 155D. Anther shape: Double and broadly reniform; basifixed. Anther size: About 2 mm by 3.5 mm. Anther color: Close to 154D. Pollen amount: Sparse to moderate. Pollen color: Close to 4D to lighter than 4D. Pistils: Quantity per flower: About two to eight. Pistil length: About 1.1 cm. Stigma diameter: About 0.3 mm. Stigma shape: Club-shaped. Stigma color: Close to 157A. Style length: About 1.05 cm. Style color: Close to 186B. Ovary color: Close to 150B. Nectaries (transformed petals): Quantity per flower: About 17 to 21. Length: About 1.3 cm. Diameter: About 4 mm to 9 mm. Shape: Tubular, flattened; apices, obtuse. Texture and luster, inner and outer surfaces: Smooth, glabrous; slightly glossy. Color, immature, inner and outer surfaces: Close to N144A; towards the apex, close to 151B. Color, mature, inner and outer surfaces: Close to N144C; towards the apex, close to 153C; venation, similar to lamina colors; with subsequent development, color becoming closer to 151A, apical edge, closer to 14A to 14B and at the base, closer to 153D. Seeds and fruits: To date, seed and fruit development have not been observed on plants of the new *Helleborus*.

Garden performance: Plants of the new *Helleborus* have been observed to have good garden performance and to tolerate rain, wind, high temperatures about 35 C and to be suitable for USDA Hardiness Zones 5 through 9.

Pathogen & pest resistance: To date, plants of the new *Helleborus* have not been observed to be resistant to pathogens and pests common to *Helleborus* plants.

It is claimed:

1. A new and distinct *Helleborus* plant named 'HL 1038' as illustrated and described.

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FIG. 1



FIG. 2