



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

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(54) **HELLEBORUS PLANT NAMED ‘HGC MERLIN’**

(50) Latin Name: ***Helleborus orientalis***
Varietal Denomination: **HGC Merlin**

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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.

(21) Appl. No.: **10/878,415**

(22) Filed: **Jun. 28, 2004**

(51) **Int. Cl.**⁷ **A01H 5/00**

(52) **U.S. Cl.** **Plt./263**

(58) **Field of Search** **Plt./263**

(56) **References Cited**
PUBLICATIONS

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Huxley, Anthony, ed. RHS Dictionary of Gardening, vol. 2
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Seyring, M. In vitro cloning of *Helleborus niger*. Plant Cell
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(57) **ABSTRACT**

A new and distinct cultivar of *Helleborus* plant named ‘HGC
Merlin’, characterized by its upright and mounded plant
habit; dark green-colored leaves; attractive dark purple-
colored flowers; and relatively early flowering.

1 Drawing Sheet

1

Botanical classification/cultivar designation: *Helleborus
orientalis* Hybrid cultivar HGC Merlin.

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct culti-
var of *Helleborus* plant, botanically known as *Helleborus
orientalis* Hybrid, and hereinafter referred to by the cultivar
name HGC Merlin.

The new *Helleborus* 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
Helleborus cultivars with a good plant habit, that flower for
a long period of time, and have attractive flower coloration.

The new *Helleborus* originated from a cross-pollination
made by the Inventor in January, 1999 in Glandorf, Germany
of an unnamed seedling of *Helleborus orientalis* Hybrid, not
patented, as the female, or seed, parent with an unnamed
seedling of *Helleborus orientalis* Hybrid, not patented, as
the male, or pollen, parent. The new *Helleborus* was dis-
covered and selected by the Inventor as a flowering plant
within the progeny of the stated cross-pollination in a
controlled environment in Glandorf, Germany.

Asexual reproduction of the new cultivar by divisions at
Glandorf, Germany since March, 2001, has shown that the
unique features of this new *Helleborus* are stable and
reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the cultivar HGC Merlin have not been observed
under all possible environmental conditions. The phenotype
may vary somewhat with variations in environment such as
temperature and light level without, however, any variance
in genotype.

2

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

1. Upright and mounded plant habit.
2. Dark green-colored leaves.
3. Attractive single dark purple-colored flowers.
4. Relatively early flowering.

Plants of the new *Helleborus* differed from plants of the
parent selections primarily in flower coloration.

Plants of the new *Helleborus* can be compared to the
Helleborus niger cultivar HGC Jericho, disclosed in U.S.
Plant patent application Ser. No. 10/878,420. In side-by-side
comparisons conducted in Glandorf, Germany, plants of the
new *Helleborus* differed from plants of the cultivar HGC
Jericho in the following characteristics:

1. Plants of the new *Helleborus* were taller and broader
than plants of the cultivar HGC Jericho.
2. Plants of the new *Helleborus* had longer leaf petioles
than plants of the cultivar HGC Jericho.
3. Plants of the new *Helleborus* had smaller flowers than
plants of the cultivar HGC Jericho.
4. Flowers of plants of the new *Helleborus* and the
cultivar HGC Jericho differed in coloration as flowers
of plants of the new *Helleborus* had dark purple-
colored flowers.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the
overall appearance of the new cultivar, showing the colors as
true as it is reasonably possible to obtain in colored repro-
ductions of this type. Colors in the photographs may differ
slightly from the color values cited in the detailed botanical

description which accurately describe the actual colors of the new *Helleborus*.

The photograph at the top of the sheet comprises a side perspective view of a typical flowering plant of 'HGC Merlin'.

The photograph at the bottom of the sheet is a close-up view of a typical flower of 'HGC Merlin'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs, following observations and measurements describe plants grown in Glandorf, Germany, in a glass-covered greenhouse and under commercial production practices during the winter. Plants were grown in 15-cm containers and were about six months old when the photographs and description were taken. During the production of the plants, day temperatures were about 18° C. and night temperatures were about 14° C. 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 classification: *Helleborus orientalis* Hybrid cultivar HGC Merlin.

Parentage:

Female parent.—Unnamed seedling of *Helleborus orientalis* Hybrid, not patented.

Male parent.—Unnamed seedling of *Helleborus orientalis* Hybrid, not patented.

Propagation:

Type.—By divisions.

Time to initiate roots, winter.—About eight weeks at 12° C.

Time to produce a rooted plant, winter.—About six months at 12 to 15° C.

Root description.—About 3 to 15 thick fleshy roots; not branching; white to brown in color.

Plant description:

Plant form/habit.—Upright and mounded plant habit; moderately vigorous growth habit. Leaves basal. Single flower form.

Plant height.—About 20 cm.

Plant width (spread).—About 40 cm.

Foliage description.—Arrangement: Basal; palmately compound with five to seven leaflets per leaf. Leaflet length: About 6.5 to 9.5 cm. Leaflet width: About 2.5 to 5.5 cm. Leaflet shape: Lanceolate; pedate. Leaflet apex: Broadly acuminate. Leaflet base: Acute. Leaflet margin: Serrate. Texture, upper and lower surfaces: Smooth, glabrous. Venation pattern: Reticulate. Color: Developing leaflets, upper surface: 137A. Developing leaflets, lower surface: Closest to 137C. Fully expanded leaflets, upper surface: 147A. Fully expanded leaflets, lower surface: Closest to 147B. Venation, upper surface: 146B to 146C.

Venation, lower surface: 146C. Petiole: Length: About 10 to 13 cm. Diameter: About 5 mm. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper and lower surfaces: 146B.

Flower description:

Flower type/habit.—Single rounded flowers arranged singly on short peduncles; petals inconspicuous; flowers outwardly drooping; typically more than one flowering stem per plant. Freely flowering habit with about ten flowers developing per plant over the flowering period.

Fragrance.—None detected.

Natural flowering season.—Relatively early flowering; intermittent flowering from November to February in Glandorf, Germany. Flowers persistent.

Postproduction longevity.—Flowers last about ten days on the plant.

Flower buds.—Height: About 1.4 cm. Diameter: About 1.1 cm. Shape: Ovoid. Color: Between 79A and 187A.

Flowers.—Diameter: About 5 cm. Depth: About 3 cm.

Petals.—Size: Minute, obscured by reproductive organs; forming inconspicuous nectaries.

Sepals.—Quantity/arrangement per flower: Typically five in a single whorl. Length: About 3.5 cm. Width: About 3.3 cm. Shape: Broadly ovate. Apex: Broadly acute to rounded. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous; satiny. Color: Developing and fully expanded sepals, upper surface: Between 79A and 187A. Developing and fully expanded sepals, lower surface: Between 79A and 187A.

Peduncles.—Length: About 3 to 5 cm. Diameter: About 1.5 mm. Orientation: Straight to bent. Strength: Strong. Texture: Smooth, glabrous. Color: 146C overlain with 187C.

Pedicels.—None.

Reproductive organs.—Stamens: Quantity per flower: About 18. Anther shape: Oblong. Anther length: About 2 mm. Anther color: 155A. Pollen amount: None observed. Pistils: Quantity per flower: About five. Pistil length: About 2 cm. Stigma shape: Tuberculate. Stigma color: 145B. Style length: About 1 cm. Style color: 145B. Ovary color: 145A.

Seed/fruit.—Seed and fruit development have not been observed.

Disease/pest resistance: Plants of the new *Helleborus* have not been noted to be resistant to pathogens and pests common to *Helleborus*.

Temperature tolerance: Plants of the new *Helleborus* have been observed to tolerate temperatures from -12 to 36° C. It is claimed:

1. A new and distinct cultivar of *Helleborus* plant named 'HGC Merlin', as illustrated and described.

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