



(12) **United States Plant Patent**
Sarrazin et al.

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(54) **DICENTRA PLANT NAMED ‘HORDIVAL’**

(50) Latin Name: *Dicentra spectabilis*
Varietal Denomination: **HORDIVAL**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.** **Plt./426**

(58) **Field of Classification Search** **Plt./426**
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct *Dicentra spectabilis* cultivar named
‘Hordival’ is disclosed, characterized distinctive orange-red
flowers, dark stems overall compact, shorter plants. The new
variety is a *Dicentra spectabilis*, suitable for outdoor land-
scape and container use.

1 Drawing Sheet

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Latin name of the genus and species: *Dicentra spectabilis*.
Variety denomination: ‘HORDIVAL’.

BACKGROUND OF THE INVENTION

The new cultivar is the result of a chance discovery in a
garden in Prince George, British Columbia, Canada. The
inventors, Lyle and Phyllis Sarrazin, citizens of Canada, dis-
covered the new variety as a naturally occurring chance seed-
ling growing in a garden of the parent variety, the unpatented
Dicentra spectabilis. The discovery was made in the Spring
of 2005.

After selecting and isolating the new cultivar, asexual
reproduction of the new cultivar ‘HORDIVAL’ was first per-
formed by division during the Fall of 2005, in Prince George,
British Columbia. ‘HORDIVAL’ has since produced several
generations and has shown that the unique features of this
cultivar are stable and reproduced true to type.

SUMMARY OF THE INVENTION

The cultivar ‘HORDIVAL’ has not been observed under all
possible environmental conditions. The phenotype may vary
somewhat with variations in environment such as tempera-
ture, day length, 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 ‘HORDIVAL.’
These characteristics in combination distinguish ‘HORDI-
VAL’ as a new and distinct *Dicentra* cultivar:

1. Dark Orange-Red flower.
2. Distinctive red stems.
3. Compact and overall shorter plant habit.

PARENTAL COMPARISON

Plants of the new cultivar ‘HORDIVAL’ are similar to the
parent, in most horticultural characteristics. However,
‘HORDIVAL’ differs in having an over all more compact and
shorter plant habit.

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COMMERCIAL COMPARISON

Plants of the new cultivar ‘HORDIVAL’ are best compared
to the parent variety.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph in FIG. 1 illustrates in full
color a typical plant of ‘HORDIVAL’ grown outdoors in the
Netherlands This plant is approximately 1 year old. The pho-
tograph was taken using conventional techniques and
although colors may appear different from actual colors due
to light reflectance it is as accurate as possible by conven-
tional photographic techniques.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to
The Royal Horticultural Society Colour Chart except where
general terms of ordinary dictionary significance are used.
The following observations and measurements describe
‘HORDIVAL’ plants grown outdoors in De Hoef, the Neth-
erlands. Temperatures ranged from Approximately –10° C. to
30° C. day and night. No artificial light, photoperiodic treat-
ments or chemical treatments were given to the plants. Mea-
surements and numerical values represent averages of typical
plant types.

Botanical classification: *Dicentra spectabilis* ‘HORDIVAL’
Age of the plant described: Approximately 18 months
Container size of the plant described: 17 cm commercial
container.

DETAILED BOTANICAL DESCRIPTION

PROPAGATION

Time to initiate roots: Typically propagated outdoors, from
March to May. Root initiation takes approximately 10
days, with full rooting within 14 days.

Root description: Moderately dense, thin, slightly fleshy, slightly fibrous, coloured near RHS Grey-Brown 199D

PLANT

Growth habit: Broad inverted triangle.
 Pot size of plant described: 17 cm.
 Height: Average: 33.8 cm.
 Plant spread: Average: 35.9 cm.
 Growth rate: Moderately high
 Branching characteristics: Basal branching with stem leaves and axillary and terminal racemes
 Length of primary lateral branches: Average: 23.9 cm (excl. inflorescence).
 Quantity of primary lateral branches: Average: 6.
 Characteristics of primary lateral branches:
Form.—Rounded, slightly angled.
Diameter.—Average: 0.5 cm.
Color.—Near RHS Grey-Brown 200B, slightly tinged RHS Greyed-Green 197A.
Texture.—Smooth, dull due to a waxy layer.
Strength.—Moderately weak.
 Internode length: Average: 5.3 cm.

FOLIAGE

Leaf:

Arrangement.—Alternate.
Leaves.—Shape: Compound, biternate (broad ovate in outline). Quantity: Approximately 9 per branch. Average Length: 14.6 cm. Average Width: 9.4 cm.
Individual leaf blades (leaflets).—Average Length: 5.1 cm. Average Width: 3.2 cm. Shape of blade: Trifoliate (obovate to orbicular in outline). Apex: Apiculate. Base: Short attenuate. Margin: Coarsely serrate. Texture of top surface: Smooth, very slightly glossy. Pubescence: No.
Aspect.—Leaf blades slightly concave, leaflets slightly drooping in an average angle of -20° (0° =horizontal).
Color.—Young foliage upper side: Near RHS Yellow-Green 144B. Young foliage under side: Near RHS Yellow-Green 145A. Mature foliage upper side: Near RHS Green 137B. Mature foliage under side: Near RHS Yellow-Green 147B, slightly tinged Greyed-Purple 183D.
Venation.—Type: Pinnate. Venation color upper side: Near RHS Greyed-Red 182A. Venation color under side: Near RHS Greyed-Purple 183B.
Petiole.—Length: Average 9.4 cm. Diameter: Average 0.3 cm. Color: Near RHS Greyed-Orange 177A. Texture: Smooth, dull due to a waxy layer.
Stipule description (if present).—No stipules present.

INFLORESCENCE

Natural flowering season: Spring
 Days to flowering from a rooted plantlet: Sparse initial flowering several weeks after rooting. Full flowering after plants are 1 year old, starting in March.
 Inflorescence and flower type and habit: Individual flowers in axillary and terminal racemes
 Inflorescence dimensions:
Diameter.—Average 5.9 cm.
Length.—Average 11.2 cm.
 Rate of flower opening: 5 to 8 days from bud to fully opened flower.

Flower longevity on plant: Average: one week

Persistent or self-cleaning: Self-cleaning

Bud:

Shape.—Obovate.

Length.—1.0 cm.

Diameter.—0.3 cm.

Color.—Near RHS Yellow-Green 152C.

Flower size:

Diameter.—At widest: 2.1 cm; at narrowest: 0.8 cm.

Depth.—2.7 cm.

Aspect.—Drooping, in an average angle of -20° (0° =horizontal).

Flowers per inflorescence.—Average 6.

15 Petals:

Quantity.—4.

Arrangement.—2 oppositely placed pairs of similar petals.

Length.—Two narrowest petals average: 2.2 cm. Two widest petals average: 1.8 cm.

Width.—Narrowest petal average: 0.35 cm. Widest petal average: 1.0 cm.

Shape.—Narrowest petals lanceolate, fused at the tips. Widest petals orbicular, but folded.

Apex.—All petals have an acute apex.

Base.—All petals have a cuneate base.

Margin.—Entire.

Texture, upper and lower surfaces.—Dull, smooth, non-pubescent.

Color.—When opening, upper surface: Narrowest petal; Near RHS White N155D, base near RHS Greyed-Purple 187A. Widest petal; near RHS Red 54C, tip darker; 54B, outer tip Yellow-Green 148A. When opening, lower surface: Narrowest petal; near RHS White N155D, Base near RHS Greyed-Purple 187A. Widest petal; RHS Red 55C, tip Yellow-Green 148B. Fully opened, upper surface: Narrowest petal; RHS White N155D, base RHS Greyed-Purple 187A. Widest petal; RHS Red 54C, tip darker; 54B, outer tip Yellow-Green 148A. Fully opened, lower surface: Narrowest petal; RHS White N155D, base RHS Greyed-Purple 187A. Widest petal; RHS Red 55C, tip Yellow-Green 148B.

45 Bracts (if present): No bracts present

Sepals: No separate petals and sepals present, only petals (see above)

Peduncles:

Length.—9.4 cm.

Diameter.—0.2 cm.

Angle.—About 45° to the lateral branch.

Strength.—Moderate.

Texture.—Smooth, dull due to a waxy layer.

Color.—Near RHS Brown 200A, tinged Greyed-Purple N186C.

Pedicels:

Length.—1.1 cm.

Diameter.—0.05 cm.

Angle.—About 45° to the peduncle, =about 90° to the lateral branch.

Strength.—Moderate.

Texture.—Smooth, dull due to a waxy layer.

Color.—Near RHS Brown 200B.

Fragrance: No fragrance.

REPRODUCTIVE ORGANS

Stamens:

Number.—6, fused in two groups of three, one on each side of the ovary, covered by the two narrowest petals. 5

Anthers:

Shape.—Anthers basifixed, narrow oblong, filament curved, following the shape of the narrowest petals.

Length.—Anthers approximately 0.1 cm. Filaments approximately 2.0 cm. 10

Color.—Anther: Near RHS Yellow 12A. Filaments: Near RHS Red 56D.

Pollen.—Color: Near RHS Yellow 11B. Quantity: Moderate.

Pistil:

Number.—1.

Length.—1.9 cm.

Style.—Length: 1.0 cm. Color: Near RHS Yellow-Green 145B.

Stigma.—Shape: Umbraculate. Color: Near RHS Yellow-Green 153D. Ovary Color: Near RHS Yellow-Green 145A.

OTHER CHARACTERISTICS

Seeds and fruits: Not observed to date.

Disease/pest resistance: Neither resistance nor susceptibility to normal diseases and pests of *Dicentra* has been observed.

Temperature tolerance: The new variety tolerates low temperatures to at least USDA Zone 4, and has been observed to tolerate high temperatures to 35° C.

What is claimed is:

15 1. A new and distinct cultivar of *Dicentra* a plant named ‘Hordival’ as herein illustrated and described.

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