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

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(54) **CLEMATIS PLANT NAMED ‘UNAI 004’**

(50) Latin Name: *Clematis jackmanii*
Varietal Denomination: **UNAI 004**

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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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A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./228**

(58) **Field of Classification Search** Plt./228
See application file for complete search history.

Primary Examiner — Kent L Bell

(57) **ABSTRACT**

A new and distinct *Clematis* cultivar named ‘UNAI 004’ is disclosed, characterized by good resistance to normal diseases and pests of *Clematis*, continuous flowering from May through September, with flower buds continuously produced from the leaf axils and a unique tepal coloration of Purple-Violet with a Purple central bar. Plants are exceptionally floriferous and compact, making them especially well suited for container production. The new cultivar is a *Clematis*, suitable for ornamental garden purposes.

2 Drawing Sheets

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Latin name of the genus and species: *Clematis jackmanii*.
Variety denomination: ‘UNAI 004’.

BACKGROUND OF THE INVENTION

The new cultivar is a product of a planned breeding program conducted by the inventor that began in 1978. The objective of the breeding program was to develop *Clematis jackmanii* varieties with abundant, continuous, long season flowering, and plants with a good resistance to diseases and pests typical of *Clematis*. In 1982 the inventor, Aili Kivistik a citizen of Estonia, organized a group of unnamed, unpatented *Clematis jackmanii* varieties for an open pollination breeding project. Seeds originating from this open pollination were planted out, and the new variety was selected in 1986. Specific parents of the new variety are unknown, as the seed was bulk collected, without noting the variety collected from. All work was conducted at a non-commercial nursery in Roo-goja, Estonia.

In 1988 the inventor first propagated ‘UNAI 004’ by vegetative cuttings at the same non-commercial nursery in Roo-goja, Estonia. Subsequent generations have shown that the unique features of this cultivar are stable and reproduced true to type.

SUMMARY OF THE INVENTION

The cultivar ‘UNAI 004’ has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, 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 ‘UNAI 004’ These characteristics in combination distinguish ‘UNAI 004’ as a new and distinct *Clematis* cultivar:

1. Good resistance to diseases and pests common to *Clematis*.
2. Continuous flowering from May through September.
3. Very floriferous plants.
4. Flower buds produced continuously from the leaf axils.

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5. Unique tepal coloration of Purple-Violet with a Purple central bar.
6. Compact plant habit especially well suited for container production.

COMPARISON TO KNOWN VARIETIES

Plants of the new cultivar ‘UNAI 004’ are similar to known forms of *Clematis jackmanii* in most horticultural characteristics, however, plants of the new cultivar ‘UNAI 004’ produce flowers with larger, and more tepals than common forms of *Clematis jackmanii* known to the inventor. Additionally, plants of ‘UNAI 004’ flower continuously from May through September, whereas many known forms of *Clematis jackmanii* flower reliably 2 months only.

The new cultivar ‘UNAI 004’ can also be compared to the known variety *Clematis jackmanii*. ‘Superba’. Plants are similar in most horticultural characteristics, however, plants of the new cultivar produces flowers with 6 to 7 tepals, compared to 4 tepals on *Clematis jackmanii*. ‘Superba’. Additionally the new cultivar begins blooming one month earlier, and have a different tepal color.

The new cultivar ‘UNAI 004’ can also be compared to the known variety *Clematis jackmanii* ‘Tie Dye’ U.S. Plant Pat. No. 18,913. Plants are similar in most horticultural characteristics, however, plants of the new cultivar produces flowers that are larger, with more tepals, of a different color. Additionally the new cultivar begins blooming one month earlier, and flowers one month later than ‘Tie Dye’.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photograph in FIG. 1 illustrates in full color a close up of typical flowers of ‘UNAI 004’.

FIG. 2 shows a typical flowering plant of ‘UNAI 004’ grown outdoors in Estonia. The plant is less than one year old. The photographs were taken using conventional techniques and although colors may appear different from actual colors due to light reflectance it is as accurate as possible by conventional 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 'UNAI 004' plants grown outdoors in Roogoja, Estonia. Plants are approximately 1 year old, in a 1 liter nursery container. The growing conditions are outdoors and unshaded. Temperatures ranged from approximately -2° C. to 20° C. at night to 5° C. to 35° C. during the day. Measurements and numerical values represent averages of typical plant types.

Botanical classification: *Clematis jackmanii* 'UNAI 004'

PROPAGATION

Time to rooting:

Initiation.—Approximately 40 days in the Summer at approximately 25° C.

Rooted cuttings production.—Approximately 40 days in the Summer at approximately 25° C.

Root description: Fine, fibrous.

PLANT

Growth habit: Climbing vine.

Height: Approximately 150 cm, measured from the soil line of the pot.

Plant spread: Approximately 100 cm when trained as a vine. Left untrained, approximately 200 cm.

Growth rate: Rapid. During active growing season in Spring, approximately 70 cm per month.

Branching characteristics: Very well branched, one main branch with at least 10 lateral branches.

Length of main stem: Approximately 150 cm.

Diameter of main stem: Approximately 0.2 to 0.5 cm.

Main stem color: Near RHS Brown 200B.

Main stem texture: Glabrous.

Internode length: Approximately 10 to 15 cm.

Strength: Strong, flexible, semi-woody.

FOLIAGE

Leaf:

Type.—Ternate leaves arranged opposite.

Description ternate leaves.—Leaves per lateral. Branch: Approximately 48 leaflets. Average Length: Approximately 12 cm. Average Width: Approximately 8 cm.

Leaflet petiole.—Average Length: Approximately 1.0 cm. Color: Near RHS Green 136A. Diameter: Approximately 0.2 cm. Texture: Glabrous

Average length.—Approximately 5 cm.

Average width.—Approximately 3 cm.

Shape of blade.—Heart shaped.

Apex.—Acute.

Base.—Cordate.

Attachment.—Petioled.

Margin.—Entire.

Texture of top surface.—Smooth.

Texture of bottom surface.—Smooth.

Leaf internode length.—Approximately 1.5 cm.

Resistance to stress and breakage.—Very resistant to environmental and mechanical stress.

Color.—Young foliage upper side: Near RHS Green 136C. Young foliage under side: Near RHS Green 137D. Mature foliage upper side: Near RHS Green 136A. Mature foliage under side: Near RHS Green 137C.

Venation.—Type: Pinnate Venation color upper side: Near RHS Green 136A. Venation color under side: Near RHS Green 137C.

Petiole.—Average Length: Approximately 6 cm. Color: Near RHS Green 136A. Diameter: Approximately 0.2 cm. Texture: Glabrous.

Tendrils not present.

FLOWER

Bloom period:

Natural season.—Continuously from approximately May through September.

Flower type and habit: Single, axillary; flowers facing outward.

Flower Longevity on Plant: Approximately 5 days, after fully opened. Self-cleaning.

Quantity of flowers: Very free, continuous flowering. Mature plants have at least 50 open flowers during the flowering season.

Flower size:

Diameter.—Approximately 10 cm.

Depth.—Approximately 1 cm.

Corolla:

Tepal arrangement.—Single overlapping whorl.

Quantity.—Approximately 6 to 7 per flower.

Size.—Length: Approximately 7 cm. Width: Approximately 5 cm.

Shape.—Oblanceolate.

Margin.—Entire.

Apex.—Acute.

Base.—Truncate.

Aspect.—Slightly concave, undulation on margin.

Texture.—Smooth, velvety.

Color:

Tepals.—When opening: Upper surface: Near RHS Purple-Violet 82A with central bar near Purple-Violet 81A. Lower surface: Near Purple-Violet 82C with central bar near Violet 85D.

Fully opened.—Upper surface: Near RHS Purple-Violet 82C with central bar near Purple 78B. Lower surface: Near RHS Purple-Violet 82C with central bar near Green-White 157A.

Ageing.—Upper Surface: Near RHS Purple 76D with central bar near Purple 78C. Lower surface: Near RHS Purple 76D with central bar near White N155B.

Bud:

Shape.—Ovate.

Length.—Approximately 2 cm.

Diameter.—Approximately 1 cm.

Color.—Mainly Near RHS Green 138C.

Peduncles:

Length.—Approximately 0.6 cm.

Width.—Approximately 0.3 cm.

Angle.—Average 45°.

Strength.—Moderate.

Color.—Near RHS Green 138A.

Fragrance: None.

REPRODUCTIVE ORGANS

Stamens:

Number.—Approximately 60 per flower.

Anther length.—0.4 cm.

Anther color.—Near RHS Yellow-Orange 23D.

Anther shape.—Oblong.

Pollen quantity.—Moderate.
Pollen color.—Near RHS Yellow-Orange 22C.
Filament length.—Approximately 0.2 cm.
Filament aspect.—Straight to slightly outwardly
 curved.
Filament color.—Near RHS Yellow-Green 150D.

Pistil:

Number.—Approximately 30 per flower.
Length.—Approximately 0.2 to 0.3 cm.
Style color.—Near RHS Yellow 11D.
Style length.—Approximately 0.5 cm.
Stigma.—Shape: Linear. Color: Near RHS Yellow 11C.

OTHER CHARACTERISTICS

Seeds: Per flower, typically 30 round seeds, approximately
 0.15 diameter. Colored near RHS Green 137B.
 5 Disease/pest resistance: Very good resistance to pathogens
 and pests common to *Clematis* have been observed.
 Temperature tolerance: Observed to tolerate temperatures
 from approximately -5° C. to at least 35°C.
 What is claimed is:
 10 **1.** A new and distinct cultivar of *Clematis* plant named
 'UNA' 004' as herein illustrated and described.

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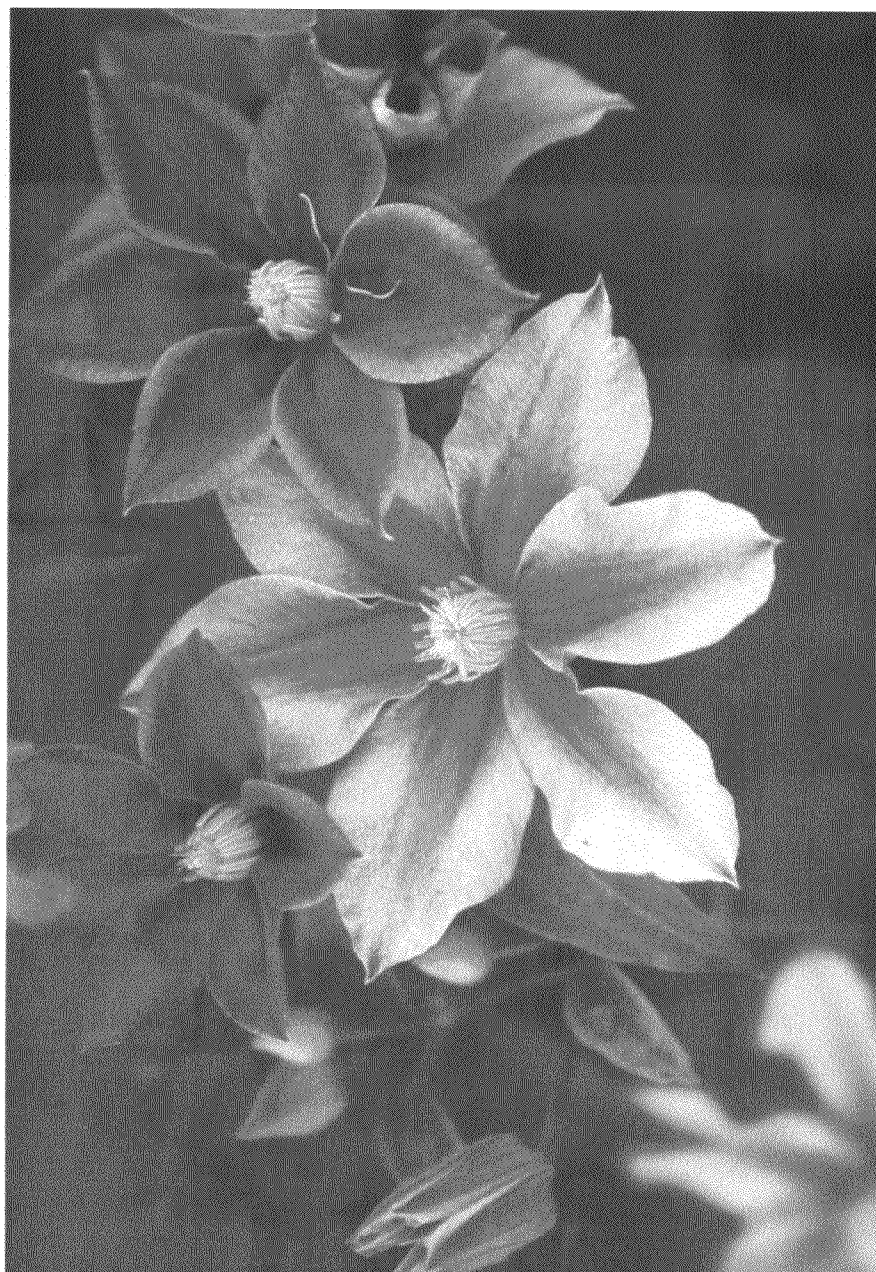


Fig. 1



Fig. 2