



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

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(54) **CLEMATIS PLANT NAMED ‘UNAI 005’**

(50) Latin Name: *Clematis jackmanii*  
Varietal Denomination: **UNAI 005**

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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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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct *Clematis* cultivar named ‘UNAI 005’ 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 Violet with a Red-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**

## 1

Latin name of the genus and species: *Clematis jackmanii*.  
Variety denomination: ‘UNAI 005’.

### 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 005’ 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 005’ 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 005’ These characteristics in combination distinguish ‘UNAI 005’ 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.

## 2

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

### COMPARISON TO KNOWN VARIETIES

Plants of the new cultivar ‘UNAI 005’ are similar to known forms of *Clematis jackmanii* in most horticultural characteristics, however, plants of the new cultivar ‘UNAI 005’ produce flowers with larger, and more tepals than common forms of *Clematis jackmanii* known to the inventor. Additionally, plants of ‘UNAI 005’ flower continuously from May through September, whereas many known forms of *Clematis jackmanii* flower reliably 2 months only.

The new cultivar ‘UNAI 005’ 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 005’ 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 typical flowering plant of ‘UNAI 005’ grown outdoors in Estonia.

FIG. 2 shows a close up of typical flowers of ‘UNAI 005’. 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 005' 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 005'

### 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 180 cm, measured from the soil line of the pot.

Plant spread: Approximately 80 cm when trained as a vine. Left untrained, approximately 150 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 180 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 66 leaflets. Average Length: Approximately 15 cm. Average Width: Approximately 11 cm.

*Leaflet petiole*.—Average Length: Approximately 1.2 cm. Color: Near RHS Green 136A. Diameter: Approximately 0.2 cm. Texture: Glabrous.

*Average length*.—Approximately 6 cm.

*Average width*.—Approximately 4 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 1.1 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 4 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 14 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*.—Deltoid.

*Margin*.—Entire.

*Apex*.—Acute.

*Base*.—Truncate.

*Aspect*.—Slightly concave, undulation on margin.

*Texture*.—Smooth, velvety.

Color:

*Tepals*.—When opening: Upper surface: Near RHS Violet 83A with central bar near Red-Purple 67A. Lower surface: Near Violet 83B with central bar near Violet 84C.

*Fully opened*.—Upper surface: Near RHS Violet 83A with central bar near Red-Purple 67A. Lower surface: Near Violet 83B with central bar near Violet 84D.

*Ageing*.—Upper Surface: Near RHS Violet 83A with central bar near Red-Purple 67A. Lower surface: Near Violet 83B with central bar near Violet 84D.

Bud:

*Shape*.—Ovate.

*Length*.—Approximately 2 cm.

*Diameter*.—Approximately 1 cm.

*Color*.—Mainly Near RHS Grey-Green 193C.

Peduncles:

*Length*.—Approximately 0.4 cm.

*Width*.—Approximately 0.2 cm.

*Angle*.—Average 45°.

*Strength*.—Moderate.

*Color*.—Near RHS Green 138A.

Fragrance: None.

### REPRODUCTIVE ORGANS

Stamens:

*Number*.—Approximately 60 per flower.

*Anther length*.—0.3 cm.

*Anther color*.—Near RHS Red-Purple 71A.

*Anther shape*.—Oblong.

*Pollen quantity*.—Moderate.

*Pollen color.*—Near RHS Yellow-Green 149C.  
*Filament length.*—Approximately 0.4 cm.  
*Filament aspect.*—Straight to slightly outwardly curved  
*Filament color.*—Near RHS White N155C.  
Pistil:  
*Number.*—Approximately 30 per flower.  
*Length.*—Approximately 0.2 to 0.3 cm.  
*Style color.*—Near RHS Yellow-Green 149C.  
*Style length.*—Approximately 1.5 cm.  
*Stigma.*—Shape: Linear. Color: Near RHS Yellow-Green 149C.

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 ‘UNAI 005’ as herein illustrated and described.

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Fig. 1



Fig. 2