



US00PP24815P3

(12) **United States Plant Patent**
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(10) **Patent No.:** **US PP24,815 P3**
(45) **Date of Patent:** **Aug. 26, 2014**

(54) **CLEMATIS PLANT NAMED ‘EVIPO045’**

(50) Latin Name: *Clematis cartmanii*
Varietal Denomination: **Evipo045**

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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.: **13/507,015**

(22) Filed: **May 31, 2012**

(65) **Prior Publication Data**

US 2013/0326776 P1 Dec. 5, 2013

(51) **Int. Cl.**
A01H 5/00 (2006.01)

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

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

Primary Examiner — Kent L Bell

(57) **ABSTRACT**

A new *Clematis* plant with a compact growth habit, profuse,
white flowers, and continuous summer flowering. The variety
successfully propagates from softwood cuttings and is suit-
able for cultivation in commercial nursery culture. This new
and distinct variety has shown to be uniform and stable in the
resulting generations from asexual propagation from vegeta-
tive cuttings.

2 Drawing Sheets

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Botanical classification: Genus: *Clematis*. Species: *cart-*
manii.

Variety denomination: ‘Evipo045’.

SUMMARY OF THE CLAIMED PLANT

The present invention constitutes a new and distinct variety
of *Clematis* plant which originated from a controlled crossing
between the female seed parent, an un-named seedling, and
the male pollen parent, an un-named seedling

The two parents were crossed during the summer of 1995
and the resulting seeds were planted the following winter in a
controlled environment in Guernsey, Channel Islands United
Kingdom. The new variety named ‘Evipo045’ originated as a
single seedling from the stated cross.

The new *Clematis* plant may be distinguished from its
female seed parent and male pollen parent primarily by flower
size and compactness of growth habit.

The objective of the hybridization of this *Clematis* plant
was to create a new and distinct variety for nursery culture
with unique qualities such as:

1. Uniform and abundant white flowers;
2. Vigorous and compact growth, making the variety suit-
able for container culture; and
3. Early flowering.

This combination of qualities was lacking in *Clematis*
plants that were in commercial cultivation and the qualities
have been substantially achieved in the new variety.

‘Evipo045’ was selected by Mogens N. Olesen and Ray-
mond J. Evison in their *Clematis* development program in the
Channel Islands, United Kingdom in 1996. Asexual repro-
duction of ‘Evipo045’ by means of vegetative cuttings and
traditional layering was first performed by Mogens N. Olesen
and Raymond J. Evison in the nursery during the summer of
1996. This initial and subsequent asexual propagations have
demonstrated that the characteristics of ‘Evipo045’ are true to
type and are transmitted from one generation to the next.

BRIEF DESCRIPTION OF THE DRAWING

The accompanying color illustrations show as true as is
reasonably possible to obtain in color photographs of this

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type the typical characteristics of the buds, flowers, leaves,
and stems, of ‘Evipo045’. Specifically illustrated in FIG. 1 of
the drawings are flowers detached, flower pedicels, leaves and
stems.

FIG. 2 shows open flowers on the plant.

DETAILED DESCRIPTION OF THE VARIETY

The following is a detailed description of ‘Evipo045’, as
observed in its growth throughout in a glasshouse located in
Lancaster, Pa. Observed plants were cultivated for a period of
18 months in 2 liter containers. Certain phenotypical charac-
teristics of the variety may vary under different environmen-
tal, cultural, agronomic, seasonal, and climatic conditions.
Color references are made using The Royal Horticultural
Society (London, England) Colour Chart, 2001, except where
common terms of color are used.

For a comparison, several physical characteristics of a non-
patented *Clematis* variety *Clematis*×*cartmanii* ‘Joe’ are com-
pared to ‘Evipo045’ in Chart 1.

CHART 1

	‘Evipo045’	‘Joe’
Flower diameter	40 mm	35 mm
Leaf morphology	Generally palmate	Digitate
Tepal overlap	none	partial

FLOWER AND FLOWER BUD

Blooming habit: Very early flowering. Recurrent. The natural
flowering period is from early April to September.

Flower bud:

Size.—Normally 15 mm in length. Bud diameter is 6
mm.

Bud form.—Tubular.

Coloration.—White Group 155A.

Peduncle:

Surface texture.—Smooth.*Length*.—On average 40 mm.*Color*.—Yellow-Green Group 144B.*Strength*.—Moderately strong.*Diameter*.—1.5 mm.

Receptacle:

Surface texture.—Smooth.*Shape*.—Funnel.*Size*.—1 mm (h)×3 mm (w).*Color*.—Yellow-Green Group 144B.

Flower arrangement:

Location on vine.—Old growth in a profusion of panicles.*Borne*.—Normally in clusters of 3 to 5 flowers per panicle.

Flower bloom:

Size.—On average, flowers are 40 mm in diameter and 6 mm in depth.*Fragrance*.—None.*Lasting quality*.—Flowers normally remain 7 days on the plant.

Tepals:

Tepal color.—The upper surface is White Group 155A with intonations of Yellow Group 11 D toward the flower center. The lower surface is White Group 155A.*Quantity*.—Normally 6 tepals.*Size*.—20 mm in length by 11 mm wide.*Shape*.—Individual tepal elliptic. The tepal apex is somewhat rounded with a small point. The tepal base is acute.*Apex recurvature*.—None.*Tepal cross section*.—Flat.*Margins*.—Entire. No undulations of margin observed.*Persistence*.—Tepals drop off cleanly.

Reproductive organs:

Arrangement.—Open.*Pollen*.—None observed.*Anthers*.—Size: 1.5 mm in length. Color: Greyed-Yellow Group 161B. Quantity: On average, 45.*Filaments*.—Color: White Group 155A. Length: 6 mm.*Pistils*.—Quantity: On average, 15.*Stigmas*.—Inferior in location relative to the length of the filaments and the height of the anthers.*Styles*.—Color: White Group 155A. Length: 5 mm.

Seed head characteristics: None observed.

PLANT

Plant form: Climbing.

Plant growth: Moderately vigorous.

Size: Seasons growth attains 50 cm height. Average spread is 50 cm.

Stems:

Color.—Juvenile stems are Yellow-Green Group 144B.

Mature stems are Green Group 137C.

Internodes.—On average, 25 mm between nodes.*Length*.—Normally 15 cm from the base of the plant to the flowering portion of the stem.*Diameter*.—3 mm.*Texture*.—Mature stems are generally smooth.

Plant foliage:

Leaf characteristics.—Evergreen.*Arrangement*.—Ternate.*Leaf size*.—Compound leaves are normally 40-45 mm (l)×40-45 mm (w). Leaflets are normally 30 mm (l)×30 mm (w).*Abundance*.—4 to 5 leaves per 10 cm of stem.*Leaf color*.—Green Group 139A on the upper surface. Green Group 138A on lower surface.*Stipules*.—Absent.*Petioles*.—Size: 13 mm in length by 1 mm diameter.

Texture: Smooth. Color: Yellow-Green Group 146A.

Petioloules.—Size: Normally 3 to 5 mm in length by 1 mm diameter. Texture: Smooth. Color: Yellow-Green Group 146A.*Leaflet shape*.—Generally palmate.*Margin*.—Deeply incised. Bi-lobed and tri-lobed.*Surface*.—The upper side is smooth. The lower side is smooth.*Thickness*.—Moderate.*Glossiness*.—Glossy.Disease resistance: Subject to any disease that normally attacks the species. However the variety is more tolerant to *Clematis* wilt than some *Clematis* known to the inventors. Cold hardiness: The variety is tolerant to USDA Hardiness Zone 6.

Heat tolerance: The variety has been found to be suitable for climate conditions found in the American Horticulture Society heat zone 7.

We claim:

1. A new and distinct variety of *Clematis* plant named 'Evipo045', substantially as described and illustrated, due to its abundant white flowers, attractive long lasting foliage, compact growth, suitability for production from softwood cuttings in pots, and flowering under glasshouse conditions, which make the variety suitable for distribution in the floral industry.

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