



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

(10) **Patent No.:** **US PP31,542 P2**  
(45) **Date of Patent:** **Mar. 10, 2020**

(54) **CAREX PLANT NAMED ‘MMCREAM’**

(50) Latin Name: *Carex morrowii*  
Varietal Denomination: **MMCream**

(71) Applicant: **Michael Merz**, Offenbach am Main  
(DE)

(72) Inventor: **Michael Merz**, Offenbach am Main  
(DE)

(\*) 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.: **16/350,206**

(22) Filed: **Oct. 12, 2018**

(51) **Int. Cl.**  
**A01H 5/12** (2018.01)

(52) **U.S. Cl.**  
USPC ..... **Plt./384**

(58) **Field of Classification Search**  
USPC ..... Plt./384  
CPC ..... A01H 5/12; A01H 6/00  
See application file for complete search history.

*Primary Examiner* — Keith O. Robinson

(57) **ABSTRACT**

A new cultivar of *Carex* plant named ‘MMCream’ that is  
characterized by variegated leaves with green centers and  
cream-white margins, wide leaves and good stress resistance  
to frost and drought.

**1 Drawing Sheet**

**1**

Botanical classification: *Carex morrowii*.  
Variety denomination: ‘MMCream’.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar  
of *Carex* plant botanically known as *Carex morrowii* and  
hereinafter referred to by the cultivar name ‘MMCream’.

The new *Carex* is a naturally-occurring whole plant  
mutation of *Carex morrowii* ‘Vanice’ (not patented). The  
new *Carex* was discovered and selected by the Inventor as  
a single plant from within a population of plants of the  
parent in a controlled greenhouse environment in a culti-  
vated area of Offenbach, Germany in 2016.

Asexual reproduction of the new cultivar ‘MMCream’  
first occurred by division in 2016 in Offenbach, Germany.  
Since that time, under careful observation, the unique char-  
acteristics of the new cultivar have been uniform, stable and  
reproduced true to type in successive generations of asexual  
reproduction.

**SUMMARY OF THE INVENTION**

The following represent the distinguishing characteristics  
of the new *Carex* cultivar ‘MMCream’. These traits in  
combination distinguish ‘MMCream’ as a new and distinct  
cultivar apart from other existing known varieties of *Carex*.

1. *Carex* ‘MMCream’ exhibits variegated leaves with  
green centers and cream-white margins.
2. *Carex* ‘MMCream’ exhibits wide leaves.
3. *Carex* ‘MMCream’ exhibits good stress resistance to  
frost and drought.

The closest comparison cultivars are *Carex* ‘Ice Ballet’  
(U.S. Plant Pat. No. 20,228) and the parent plant ‘Vanice’.  
‘MMCream’ is distinguishable from ‘Ice Ballet’ by the  
following characteristics:

1. *Carex* ‘MMCream’ exhibits variegated leaves with  
green centers and cream-white margins. In contrast, the  
leaves of ‘Ice Ballet’ have darker green centers and  
lighter cream-white margins.
2. *Carex* ‘MMCream’ exhibits wider leaves than the  
leaves of ‘Ice Ballet’.

**2**

3. *Carex* ‘MMCream’ exhibits better stress resistance to  
frost and drought than ‘Ice Ballet’.

‘MMCream’ is distinguishable from the parent plant  
‘Vanice’ by the following characteristics:

1. *Carex* ‘MMCream’ exhibits variegated leaves with  
green centers and cream-white margins. In contrast, the  
leaves of ‘Vanice’ have narrower cream-white margins.
2. *Carex* ‘MMCream’ exhibits wider leaves than the  
leaves of ‘Vanice’.
3. *Carex* ‘MMCream’ exhibits better stress resistance to  
frost and drought than ‘Vanice’.

**BRIEF DESCRIPTION OF THE DRAWING**

The accompanying photograph illustrates the distinguish-  
ing traits of *Carex* ‘MMCream’. The plant in the photograph  
shows an overall view of an 18 month old plant. The  
photograph 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.

**BOTANICAL DESCRIPTION OF THE PLANT**

The following is a detailed description of the new *Carex*  
cultivar named ‘MMCream’. Data was collected in Mainz,  
Germany from 18 month old greenhouse grown plants in 20  
cm. diameter containers. The time of year was Spring and  
the temperature averaged 17 degrees Centigrade during the  
day and 10 degrees Centigrade at night. No growth retar-  
dants were used. Color determinations are in accordance  
with The Royal Horticultural Society Colour Chart 2007  
edition, except where general color terms of ordinary dic-  
tionary significance are used. The growing requirements are  
similar to the species. ‘MMCream’ has not been tested under  
all possible conditions and phenotypic differences may be  
observed with variations in environmental, climatic, and  
cultural conditions, however, without any variance in geno-  
type.

Botanical classification: *Carex morrowii* ‘MMCream’.  
Annual or perennial: Perennial.

Parentage: 'MMCream' is a naturally occurring whole plant mutation of *Carex* 'Vance'.

Vigor: Moderate.

Growth habit: Clumping habit with curved foliage.

Plant shape: Upright with outwardly arching foliage.

Suitable container size: 20 cm. and larger.

Height: Average 29.0 cm. in height.

Diameter: Average 73.0 cm. in diameter.

Low temperature tolerance: -20° Centigrade.

High temperature tolerance: 35° Centigrade.

Propagation: Division.

Time to initiate roots: About 20 days.

Time to produce a rooted young plant: 12 weeks.

Root system: Short, stout rhizomes with dense fibrous roots.

Root color: 145D.

Branching: No stems, shoots arise from rhizomes.

Foliage:

*Number of shoots per plant.*—Average 18.

*Number of leaves per shoot.*—Average 10.

*Leaf shape.*—Linear.

*Leaf division.*—Simple.

*Leaf apex.*—Attenuate.

*Leaf base.*—Sheathed to rhizome.

*Leaf aspect.*—Leaves initially emerge upright, then arch outward.

*Leaf dimensions.*—Average 39.9 cm. in length and 1.3 cm. in width.

*Texture.*—Glabrous on both surfaces.

*Pubescence.*—Absent on both surfaces.

*Leaf margin.*—Entire.

*Venation pattern.*—Parallel.

*Young leaf color (upper surface).*—137B, margins 11B.

*Young leaf color (lower surface).*—137C, margins 11C.

*Mature leaf color (upper surface).*—137A, margins 11B.

*Mature leaf color (lower surface).*—137B, margins 11B.

*Vein color (both surfaces).*—Matches leaf color.

*Durability of foliage to stress.*—High.

Flower:

*Inflorescence arrangement.*—Terminal racemes, male and female flowers on separate spikelets.

*Flowering habit.*—Free flowering with about 34 inflorescences per plant.

*Inflorescence dimensions.*—Average 22.4 cm. in height and 1.5 cm. in width.

*Quantity of flowers per inflorescence.*—Average 200.

*Natural flowering season.*—March to April in Germany.

*Fragrance.*—None.

*Flower longevity.*—About 10 days.

*Bud dimensions.*—5 mm. in length and 2 mm. in diameter.

*Bud shape.*—Oblong.

*Bud color.*—198B.

*Staminate spikelets.*—Narrow ovate in shape, dimensions: Average of 3.2 mm. in diameter and 10.1 mm. in length.

*Male flower description.*—1 glume and 1 lemma, surfaces smooth, lanceolate in shape, 4.6 mm. in length and 0.5 mm. in width, color N199B.

*Pistillate spikelets.*—Narrow ovate in shape, dimensions: Average of 2.6 mm. in diameter and 7.3 mm. in length.

*Female flower description.*—1 glume and 1 lemma, surfaces smooth, lanceolate in shape, 3.4 mm. in length and 0.5 mm. in width, color N199B.

*Persistent or self-cleaning.*—Persistent.

Peduncle:

*Peduncle dimensions.*—21.0 cm. in length and 4.4 mm. in diameter.

*Peduncle angle.*—0 to 15 degrees.

*Peduncle strength.*—Strong.

*Peduncle color.*—144B.

Reproductive organs:

*Number of stamens per flower.*—3.

*Anther length.*—1.0 mm.

*Anther shape.*—Ovoid.

*Anther color.*—165B.

*Pollen amount.*—Low.

*Pollen color.*—164C.

*Number of pistils per flower.*—1.

*Pistil length.*—1.1 mm.

*Style length.*—About 1 mm.

*Style color.*—145A.

*Stigma shape.*—Fimbriate.

*Stigma color.*—144A.

*Ovary color.*—143 C.

Fruit and seed: Fruit and seed production has not been observed to date.

Disease and pest resistance: Disease and pest resistance has not been observed to date.

The invention claimed is:

1. A new and distinct variety of *Carex* plant named 'MMCream' as described and illustrated.

\* \* \* \* \*



