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Frank

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(54) **ORNITHOGALUM PLANT NAMED**
‘MFPRINSTAR’

(50) Latin Name: *Ornithogalum dubium*
Varietal Denomination: **MFPRINSTAR**

(71) Applicant: **Michael Frank**, Moshav Givat Chen
(IL)

(72) Inventor: **Michael Frank**, Moshav Givat Chen
(IL)

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**
USPC **Plt./462**

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

Primary Examiner — Keith Robinson

(74) *Attorney, Agent, or Firm* — Brett McKinney

(57) **ABSTRACT**

A new and distinct *Ornithogalum* cultivar named ‘MFPRIN-
STAR’ is disclosed, characterized by long inflorescence of
30 cm, height of 60 cm, a high yield of 2-3 flowers per bulb,
and light orange flower petals. The new variety is an
Ornithogalum, normally produced as an ornamental plant or
cut flower.

1 Drawing Sheet

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Latin name of the genus and species: *Ornithogalum*
dubium.

Variety denomination: ‘MFPRINSTAR’.

BACKGROUND OF THE INVENTION

The new *Ornithogalum* cultivar is a product of a planned
breeding program conducted by the inventor, Michael
Frank, in Moshav Givat Chen, Israel. The objective of the
breeding program was to produce new *Ornithogalum* vari-
eties for ornamental commercial applications. The cross
resulting in this new variety was made during March of
2012.

The seed parent is the, unpatented, commercial variety
referred to as *Ornithogalum* ‘MFGOLDSTAR’. The pollen
parent is the unpatented, commercial variety referred to as
Ornithogalum ‘MFSSTAR’. The new variety was discov-
ered in March of 2013 by the inventor in a group of seedlings
resulting from the **2012** crossing, in a research greenhouse
in Moshav Givat Chen, Israel.

Asexual reproduction of the new cultivar was performed
by tissue culture. This was first performed at a research
laboratory in Moshav Givat Chen, Israel in March of 2013
and has shown that the unique features of this cultivar are
stable and reproduced true to type in multiple successive
generations.

SUMMARY OF THE INVENTION

The cultivar ‘MFPRINSTAR’ 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, how-
ever, any variance in genotype.

The following traits have been repeatedly observed and
are determined to be the unique characteristics of ‘MFPRIN-

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STAR’ These characteristics in combination distinguish
‘MFPRINSTAR’ as a new and distinct *Ornithogalum* culti-
var:

1. Light orange petals
2. Long inflorescence (30 cm)
3. Average height—60 cm
4. High yield: 2-3 flowers per bulb
5. 150 days to flowering

PARENT COMPARISON

Plants of the new cultivar ‘MFPRINSTAR’ are similar to
plants of the seed parent, *Ornithogalum* ‘MFGOLDSTAR’
in most horticultural characteristics, however, plants of the
new cultivar ‘MFPRINSTAR’ differ in the following;

1. Light orange flowers, the seed parent has a dark yellow
flower.
2. 30 cm long inflorescence, the seed parent has 10 cm
long inflorescence.
3. Height is 60 cm, the seed parent is 50 cm.
4. Produces 2-3 flowers per bulb, while the seed parent
produces 1-2 flowers per bulb.

Plants of the new cultivar ‘MFPRINSTAR’ are similar to
plants of the pollen parent, *Ornithogalum* ‘MFSSTAR’ in
most horticultural characteristics, however, plants of the
new cultivar ‘MFPRINSTAR’ differ in the following;

1. Produces 2-3 flowers per bulb, the pollen parent
produces 1-2 flowers per bulb
2. Has a 30 cm long inflorescence, the pollen parent has
20 cm long inflorescence.
3. Flowers color is light orange, the pollen parent has
orange flowers.

COMMERCIAL COMPARISON

Plants of the new cultivar ‘MFPRINSTAR’ are compa-
rable to the unpatented commercial variety *Ornithogalum*
‘MFWHITSTAR’. The two *Ornithogalum* varieties are

similar in most horticultural characteristics; however, the new variety 'MFPRINSTAR' differs in the following:

1. The new variety has light orange flowers, while the comparator has white flowers.
2. The new variety height is 60 cm, while the comparator is 55 cm in height.
3. The new variety has smooth stem, while the comparator has a textured stem.
4. The new variety is dubium compatible, while the comparator is dubium incompatible.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph in FIG. 1 illustrates in full color a typical flowering stem of 'MFPRINSTAR' grown in a nursery. The stem was harvested from a plant of approximately 6 months old. 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 conventional photographic techniques.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society Mini Colour Chart 2001 except where general terms of ordinary dictionary significance are used. The following observations and measurements describe 'MFPRINSTAR' plants grown outdoors and in greenhouse during the Spring, and Summer in Moshav Givat Chen, Israel. The growing temperature ranged from 20° C. to 35° C. during the day and from 17° C. to 23° C. during the night. General light conditions are bright, normal sunlight. Measurements and numerical values represent averages of typical plant types.

Botanical classification: *Ornithogalum* 'MFPRINSTAR'.

PROPAGATION

Type of propagation typically used: tissue culture.

Time to initiate roots: 10-14 days.

Root description: Fibrous.

Bulb description:

Color.—Mixture of Brown 200C, 200D, Greyed-Orange 177A and 174A.

Diameter.—6-16 mm for first year bulbs (5 month growth).

Height.—6-20 mm for first year bulbs (5 month growth).

PLANT

Age of plant described: Approximately 5 months.

Pot size of plant described: Planted in soil.

Typical time to produce a flowering plant commercially: 150-180 days.

Height: Approximately 40 cm to top of highest leaf. Approximately 60 cm to top of highest inflorescence.

Plant spread: Approximately 25 cm.

Growth rate: High.

Branching characteristics: Non-branching.

FOLIAGE

Leaf:

Arrangement.—Rosette.

Average length.—Approximately 25 cm.

Average width.—Approximately 5 cm.

Shape of blade.—Sharp tip, flattened.

Apex.—Sharp tip.

Base.—Flattened.

Margin.—Smooth.

Texture of top surface.—Smooth.

Texture of bottom surface.—Smooth.

Quantity of leaves per plant.—Approximately 7.

Attitude.—Arched.

Color.—Between Green 141C and 137C.

Venation.—Type: Linear.

FLOWER

Natural flowering season: Spring.

Time to flowering: About 150 days.

Flowering stems produced per bulb: 2-3.

Inflorescence type and habit: Long raceme.

Rate of flower opening: 3-5 days from pigments formation.

Flower longevity on plant, or in vase if cut flower: 6 weeks and 3 weeks respectively.

Quantity of flowers per inflorescence: 40.

Average inflorescence per plant: 1.

Inflorescence size:

Height.—Approximately 30 cm.

Width.—Approximately 4 cm.

Flowers per inflorescence: Average 25.

Individual flowers:

Length.—Approximately 3 cm.

Width.—Approximately 3 cm.

Type.—Single.

Shape.—Cup.

Petals:

Quantity.—6.

Shape.—Elliptic, concave.

Length.—Approximately 1.5 cm.

Width.—Approximately 1 cm.

Margin.—Smooth.

Apex.—Tip-like.

Base.—Smooth.

Texture.—Smooth inner and outer surfaces.

Appearance.—Matte inner and outer surfaces.

Color:

Petals.—When opening: Outer surface: Near RHS NO25. Inner surface: Near RHS NO25. Fully opened: Outer surface: Near RHS NO25. Inner surface: Near RHS NO25. Color Changes when Aging: Yes. Become near Greyed-Orange 177D when petals get old. Striations or marking: Absent.

Sepals.—Quantity: 40. Shape: Concave Blade-like. Length: Approximately 2-5 cm. Width: Approximately 1 cm. Margin: Smooth. Apex: Sharp tip. Base: Smooth. Texture: Smooth inner and outer surfaces. Appearance: Matte inner and outer surfaces.

Color:

Sepals.—When opening: Green. Outer surface: Near RHS Yellow-Green 144C. Inner surface: Near RHS Yellow-Green 144C. Fully opened: Outer surface: Near RHS Yellow-Green 144C. Inner surface: Near RHS Yellow-Green 144C.

Bud:

Shape.—Conic.

Length.—Approximately 1 cm.

Diameter.—Approximately 0.5 cm.

Color.—Green Near RHS.

Pedicels:

Length.—Approximately 3 cm.

Width.—Approximately 0.01 cm.

Aspect.—Angular.

Strength.—Firm.
Texture.—Smooth.
Color.—Near RHS Yellow-Green 144A.
Scape:
Length.—Approximately 60 cm.
Width.—Approximately 1 cm.
Texture.—Smooth.
Angle.—Erect.
Strength.—High.
Color.—Near RHS Green 137B.
Bract:
Length.—5 mm.
Form.—Ovate.
Color.—Near RHS Green 137B.
Fragrance: None.

REPRODUCTIVE ORGANS

Stamens:
Number.—6.
Filament length.—Approximately 0.4 cm.
Filament color.—Near RHS Black 202A.

Anther length.—0.3 cm.
Anther color.—Near RHS Yellow 3A.
Anther shape.—Tag-like.
Pollen.—Sphere with pits.
5 Pistil:
Number.—1.
Length.—Approximately 0.3 cm.
Style color.—Near RHS Black 202A.
Stigma.—Shape: Triple. Color: Near RHS Black 202A.

10 OTHER CHARACTERISTICS

Seeds and fruits: Completely fertile.
Disease/pest resistance: Resistance to *Erwinia corotovora*.
Neither resistance nor susceptibility to other normal dis-
15 eases and pests of *Ornithogalum* has been observed.
Temperature tolerance: Tolerates temperatures from
approximately 1° C. to 30° C.
What is claimed is:
1. A new and distinct cultivar of *Ornithogalum* plant
20 named ‘MFPRINSTAR’ as herein illustrated and described.
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