



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

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(54) **LILY PLANT NAMED ‘TINY MISSILE’**

(50) Latin Name: *Lilium hybrida*
Varietal Denomination: **Tiny Missile**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**

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(58) **Field of Classification Search**

USPC Plt./313, 315

See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of Lily plant named ‘Tiny Mis-
sile’, characterized by its compact and upright plant habit;
vigorous growth habit; densely-foliated habit; freely flower-
ing habit; upright flower buds and flowers; dark red-colored
flowers; and good postproduction longevity.

1 Drawing Sheet

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Botanical designation: *Lilium hybrida*.
Cultivar denomination: ‘TINY MISSILE’.

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct cultivar
of Lily plant, commercially known as Oriental Hybrid Lily,
botanically known as *Lilium hybrida* and hereinafter referred
to by the name ‘Tiny Missile’.

The new Oriental Hybrid Lily plant is a product of a
planned breeding program conducted by the Inventor in ’t
Zand, The Netherlands. The objective of the breeding pro-
gram is to develop new potted Oriental Hybrid Lily plants
with erect flowers, attractive flower coloration and good post-
production longevity.

The new Oriental Hybrid Lily plant originated from a
cross-pollination in 2004 of two different unnamed propri-
etary seedling selections of *Lilium hybrida*, not patented. The
new Oriental Hybrid Lily plant was discovered and selected
by the Inventor as a single flowering plant from within the
resultant progeny of the cross-pollination in a controlled
greenhouse environment in ’t Zand, The Netherlands in May,
2007.

Asexual reproduction of the new Oriental Hybrid Lily
plant by bulb scales in a controlled greenhouse environment
in ’t Zand, The Netherlands since November, 2007 has shown
that the unique features of this new Oriental Hybrid Lily plant
are stable and reproduced true to type in successive genera-
tions.

SUMMARY OF THE INVENTION

Plants of the new Oriental Hybrid Lily have not been
observed under all possible environmental conditions and
cultural practices. The phenotype may vary somewhat with
variations in environmental conditions such as temperature
and light intensity without, however, any variance in geno-
type.

The following traits have been repeatedly observed and are
determined to be the unique characteristics of ‘Tiny Missile’.

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These characteristics in combination distinguish ‘Tiny Mis-
sile’ as a new and distinct Oriental Hybrid Lily plant:

1. Compact and upright plant habit.
2. Vigorous growth habit.
3. Densely-foliated habit.
4. Freely flowering habit.
5. Upright flower buds and flowers.
6. Dark red-colored flowers.
7. Good postproduction longevity.

Plants of the new Oriental Hybrid Lily differ primarily
from plants of the female parent seedling selection in the
following characteristics:

1. Plants of the new Oriental Hybrid Lily have longer
leaves than plants of the female parent seedling selec-
tion.
2. Plants of the new Oriental Hybrid Lily flower earlier than
plants of the female parent seedling selection.
3. Plants of the new Oriental Hybrid Lily have smaller
flowers than plants of the female parent seedling selec-
tion.
4. Flowers of plants of the new Oriental Hybrid Lily are
more upright than flowers of plants of the female parent
seedling selection.

Plants of the new Oriental Hybrid Lily differ primarily
from plants of the male parent seedling selection in the fol-
lowing characteristics:

1. Plants of the new Oriental Hybrid Lily and the male
parent seedling selection differ in flower bud color.
2. Plants of the new Oriental Hybrid Lily have smaller
flowers than plants of the male parent seedling selection.

Plants of the new Oriental Hybrid Lily can be compared to
plants of Oriental Hybrid Lily ‘Tiny Hope’, disclosed in U.S.
Plant Pat. No. 16,239. Plants of the new Oriental Hybrid Lily
differ from plants of ‘Tiny Hope’ in the following character-
istics:

1. Plants of the new Oriental Hybrid Lily are more compact
than plants of ‘Tiny Hope’.
2. Plants of the new Oriental Hybrid Lily have larger leaves
than plants of ‘Tiny Hope’.
3. Plants of the new Oriental Hybrid Lily and ‘Tiny Hope’
differ in flower bud color.

4. Plants of the new Oriental Hybrid Lily have smaller flowers than plants of 'Tiny Hope'.

DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the overall appearance of the new Oriental Hybrid Lily plant showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photograph may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new Oriental Hybrid Lily plant.

The photograph comprises a side perspective view of a typical flowering plant of 'Tiny Missile'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations and measurements describe plants that were grown during the spring in 15-cm containers in a glass-covered greenhouse in 't Zand, The Netherlands and under cultural conditions typically used in Oriental Hybrid Lily production. During the production of the plants, day temperatures averaged 15° C., night temperatures averaged 18° C. and light levels averaged 6,000 lux. Measurements and numerical values represent averages for typical flowering plants. Plants were 60 days old when the photograph and description were taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2001 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Lilium hybrida* 'Tiny Missile'.

Parentage:

Female, or seed, parent.—Unnamed proprietary seedling selection of *Lilium hybrida*, not patented.

Male, or pollen, parent.—Unnamed proprietary seedling selection of *Lilium hybrida*, not patented.

Plant description:

Plant form and growth habit.—Upright flowering plant; single erect flowering stem with a terminal cluster of flowers; compact and dense plant habit; vigorous growth habit.

Plant height, soil level to top of flowers.—About 31 cm.

Plant diameter, or spread.—About 22 cm.

Plant circumference.—About 70 cm.

Bulbs.—Diameter: About 10 cm to 20 cm. Texture: Smooth. Color: Close to 155D.

Flowering stems.—Diameter: About 5 mm. Internode length: About 1 cm. Strength: Strong. Texture: Smooth, glabrous. Color: Close to 143C.

Leaves.—Arrangement and quantity: Alternate; simple; sessile; about 94 leaves develop per plant. Length, upper leaves: About 10.5 cm. Width, upper leaves: About 4 cm. Length, lower leaves: About 11 cm. Width, lower leaves: About 1.7 cm. Shape: Lanceolate. Apex: Acute. Base: Decurrent. Margin: Entire. Texture, upper and lower surfaces: Glabrous, smooth; leathery. Venation pattern: Parallel. Color: Developing and fully expanded leaves, upper surface: Close to 143A; venation, close to 143A. Developing and fully expanded leaves, lower surface: Close to 143C; venation, close to 143C.

Flower description:

Flower shape and aspect.—Flowers umbellate or funnel-shaped; when fully opened, flowers flatten and tepals recurve towards the apex; flower buds face upright and flowers face upright to slightly outwardly.

Flowering habit.—Freely flowering habit, large bulbs will produce seven to ten flowers per flowering stem.

Fragrance.—Slightly fragrant.

Natural flowering season.—Plants flower in June and July in The Netherlands; plants can be flowered year-round in the greenhouse and forced to bloom about 60 days after planting bulbs.

Postproduction longevity.—Good postproduction longevity, flowers last about 15 days on the plant; tepals not persistent; gynoecium persistent.

Flower buds.—Length: About 8 cm. Diameter: About 2.5 cm. Circumference: About 7.5 cm. Shape: Lanceolate. Color: Close to 185A; sutures, close to 179A.

Flower size.—Diameter: About 15 cm. Length (height): About 7 cm.

Perianth.—Quantity and arrangement: Six tepals per flower arranged in two whorls; tepals imbricate. Tepal length, inner tepals: About 8 cm. Tepal width, inner tepals: About 4 cm. Tepal length, outer tepals: About 8.5 cm. Tepal width, outer tepals: About 3.5 cm. Tepal shape: Lanceolate. Tepal apex: Acute. Tepal margin: Entire. Tepal texture, upper and lower surfaces: Smooth, glabrous. Tepal color: When opening, upper surface: Between 181A and 46A. When opening, lower surface: Between 44A and 46A. Fully opened, upper surface: Close to 46A; color becoming closer to 181A with development. Fully opened, lower surface: Between 181A and 46A.

Pedicels.—Angle: About 45° to 70° from vertical. Strength: Strong. Length: About 5 cm. Diameter: About 4 mm. Texture: Smooth, glabrous. Color: Close to 143B.

Reproductive organs.—Stamens: Quantity per flower: Six. Filament length: About 5.5 cm. Filament color: Close to 181C; towards the apex, close to 185A. Anther length: About 1.1 cm. Anther color: Close to 183B. Pollen color: Close to 171A. Pistils: Quantity per flower: One. Style length: About 4.3 cm. Style color: Close to 181C; towards the apex, close to 185A. Stigma diameter: About 5 mm. Stigma shape: Lobed. Stigma color: Close to 183C.

Fruits.—Length: About 1.8 cm. Diameter: About 3 mm. Color: Close to 144D; towards the apex, lose to 144C.

Seeds.—No viable seeds have been observed on plants of the new Oriental Hybrid Lily plant.

Disease & pest resistance: Resistance to pathogens and pests common to Oriental Hybrid Lilies has not been observed on plants of the new Oriental Hybrid Lily.

Garden performance: Plants of the new Oriental Hybrid Lily have exhibited good tolerance to rain and wind and have been observed to tolerate temperatures from about -2° C. to about 40° C.

It is claimed:

1. A new and distinct Lily plant named 'Tiny Missile' as illustrated and described.

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