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

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(54) **CHAMELAUCIUM PLANT NAMED ‘NIR EDEN’**

(50) Latin Name: *Chamelaucium uncinatum*
Varietal Denomination: **NIR EDEN**

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

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(57) **ABSTRACT**

A new and distinct *Chamelaucium* cultivar named ‘NIR EDEN’ is disclosed, characterized by unique flower size and color, solid petal color. The new variety is a *Chamelaucium*, normally producing cut flower stems, or as a garden or container plant.

1 Drawing Sheet

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Latin name of the genus and species: *Chamelaucium uncinatum*.

Variety denomination: ‘NIR EDEN’.

BACKGROUND OF THE INVENTION

The new *Chamelaucium* cultivar is a product of a planned breeding program conducted by the inventor, Nitzan Nir, in Kfar Hess, Israel. The objective of the breeding program was to produce new *Chamelaucium* varieties for ornamental commercial applications. The new variety is a product of cross breeding that occurred during 2010, at a commercial nursery in Kfar Hess, Israel.

The seed parent is the unpatented, variety *Chamelaucium* ‘Atar’. The pollen parent is the unpatented, variety *Chamelaucium* ‘Eden’. The new variety was discovered in January of 2009 by the inventor in a group of seedlings resulting from the crossing, in a commercial nursery in Kfar Hess, Israel.

Asexual reproduction of the new cultivar has been performed by vegetative cuttings. This was first performed at a commercial nursery in Kfar Hess, Israel in April of 2009 and has shown that the unique features of this cultivar are stable and reproduced true to type in four successive generations.

SUMMARY OF THE INVENTION

The cultivar ‘NIR EDEN’ 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 ‘NIR EDEN’. These characteristics in combination distinguish ‘NIR EDEN’ as a new and distinct *Chamelaucium* cultivar:

1. Dark pink flower color.
2. Open branch structure.
3. Mid season blooming.

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PARENT COMPARISON

Plants of the new cultivar ‘NIR EDEN’ are similar to plants of the seed parent, *Chamelaucium* ‘Atar’ in most horticultural characteristics, however, plants of the new cultivar ‘NIR EDEN’ produces a different flower color than the seed parent.

Plants of the new cultivar ‘NIR EDEN’ are similar to plants of the pollen parent; *Chamelaucium* ‘Eden’ in most horticultural characteristics, however, plants of the new cultivar ‘NIR EDEN’ produce a different branch structure compared to the pollen parent.

COMMERCIAL COMPARISON

‘NIR EDEN’ can be compared to the unpatented commercial variety *Chamelaucium* ‘M.B. Violet’. Plants of ‘NIR EDEN’ are similar to plants of ‘M.B. Violet’ in most horticultural characteristics, however, plants of ‘NIR EDEN’ produce a solid colored petal compared to the petal of ‘M.B. Violet’ which has a white ring at the center. Additionally ‘NIR EDEN’ produces a flower of different size than those of the comparator.

‘NIR EDEN’ can be compared to the commercial variety *Chamelaucium* ‘M.B. Orchid’. Plants of ‘NIR EDEN’ are similar to plants of ‘M.B. Orchid’ in most horticultural characteristics, however, plants of ‘NIR EDEN’ produce flowers of different size and color as well as a different bloom date than the comparator.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph in FIG. 1 illustrates in full color a close up of typical flowers and foliage of ‘NIR EDEN’ at approximately 1 year of age.

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 Colour Chart 2007 except where general terms of ordinary dictionary significance are used. The following observations and measurements describe 'NIR EDEN' plants grown outdoors in Kfar Hess, Israel. The growing temperature ranged from 15° C. to 35° C. during the day and from -2° C. to 35° C. during the night. General light conditions are bright, normal sunlight. Measurements and numerical values represent averages of typical plant types. Chemical treatments included general fungicides and insecticides.

Botanical classification: *Chamelaucium uncinatum* 'NIR EDEN'.

PROPAGATION

Time to produce a rooted plantlet: 30 to 60 days at approximately 24° C.

Root description: Fibrous.

Root color: Varies, new root growth near Orange 159D, older, woodier roots near Grey-Brown N 199A, 199A, 199B.

PLANT

Age of plant described: 2 months from a rooted cutting.

Growth habit: Upright.

Pot size of plant described: 2 liter pot.

Height: 200 cm to top of foliage. 197 cm to top of flowers.

Plant spread: 80 cm.

Growth rate: Rapid.

Branching characteristics: Free branching after a pinch.

Length of primary lateral branches: 60 cm to 200 cm.

Diameter of lateral branches: 0.4 cm.

Quantity of primary lateral branches: 120-150.

Characteristics of primary lateral branches:

Form.—Round.

Diameter.—0.5 cm.

Color.—Near RHS Yellow-Green 147A.

Texture.—Smooth.

Strength.—Stems brittle.

Internode length: 1.5-11 cm.

FOLIAGE

Leaf:

Arrangement.—Opposite.

Quantity.—Approximately 6 leaves, in the 10-15 cm section from the top of the branch.

Average length.—2.2 cm.

Average width.—0.1 cm.

Shape of blade.—Needle.

Apex.—Acute.

Base.—Attenuate.

Margin.—Entire.

Texture of surfaces.—All surfaces glabrous.

Pubescence.—None.

Aspect.—Straight, approximately 15 to 45 degree angle from stem.

Color.—Young foliage: Near RHS Yellow-Green 147A.

Mature foliage: Near RHS Green 137A, but darker.

Venation.—Indistinguishable from foliage.

Petiole.—Not present.

FLOWER

Natural flowering season: Plants planted during April through October begin flowering December through February, without a juvenility period in Kfar Hess, Israel. Plants flower continuously under short day conditions.

Days to flowering from rooted cutting: Short day photoperiodic conditions. No juvenility.

Inflorescence type: Terminal and axillary occurring panicle.

Individual flower type: Single, rotate 5 petaled with an obconical shaped hypanthium. Flowers outwardly facing.

Persistent or self-cleaning: Self-Cleaning.

Rate of flower opening: 65 to 90 days from bud to fully opened flower.

Typical flowering stem length: Approximately 70 to 110 cm.

Typical flowering stems harvested per plant: 120 - 150.

Vase life of flowers: Two weeks. Approximately 45 to 60 days on the plant.

Bud:

Shape.—Round.

Length.—0.5 cm.

Diameter.—0.5 cm.

Texture.—Glabrous.

Color.—Near Purple N79D.

Inflorescence size:

Diameter.—Average 20 cm.

Length.—Average 11 cm.

Flower size:

Diameter.—2.0 cm.

Length.—0.6 cm.

Corolla:

Petals.—Length: 0.5 cm. Diameter: 0.55 cm. Quantity: 5. Texture: Smooth upper and lower surfaces. Apex: Obtuse rounded. Base: Fused into a hypanthium.

Color.—When opening: Upper surface: Near Red-Purple 72A. Lower surface: Near Purple N79A. Fully opened: Upper surface: Near Red-Purple 70A. Lower surface: Near Red-Purple 72A. Aging: Upper surface: Near Red-Purple 72A. Lower surface: Near Red-Purple 72A.

Hypanthium:

Diameter.—0.9 cm.

Length.—0.35 cm.

Shape.—Obconical.

Color.—When opening: Upper surface: Near Red-Purple 72A. Lower surface: Near Purple N79A. Fully opened: Upper surface: Near Red-Purple 70A. Lower surface: Near Red-Purple 72A. Aging: Upper surface: Near Red-Purple 72A. Lower surface: Near Red-Purple 72A.

Calyx/sepal:

Quantity per flower.—Fused into a single conical structure.

Shape.—Conic.

Length.—0.35 cm.

Width.—0.9 cm.

Margin.—Entire, incised approximately 1 mm.

Texture.—Smooth outer and inner surfaces.

Color.—Near RHS Yellow-Green 147A, covered with Greyed-Purple 187B.

Peduncle: Peduncle is the lateral branch.

Pedicle:
 Length.—0.8 cm.
 Diameter.—0.1 cm.
 Color.—Near Yellow-Green 147A.
Fragrance: None.

REPRODUCTIVE ORGANS

Stamens:
 Number.—10.
 Filament length.—1 mm.
 Filament color.—Near RHS Red 56D.
Anthers:
 Shape.—Oval.
 Length.—0.25-0.5 mm.
 Width.—0.15 mm.
 Color.—Near Purple 77A.
Pollen: Not observed.
Pistil:
 Number.—1.
 Length.—0.5 cm.

Style.—Length: 0.49 cm. Color: Near Purple 77D.
Stigma.—Shape: Round. Color: Near Purple N77B.

OTHER CHARACTERISTICS

5 Seeds and fruits: Single flower produces one fruit. When the
fruit is fertile, it will produce 1 seed, occasionally 2 seeds.
Fruit type is a nut, colored near Grey-Brown N199A, seed
10 is unwinged colored approximately 1.5 mm, brown in
color, too minute to accurately measure color with R.H.S.
chart.
Disease/pest resistance: Neither resistance nor susceptibility
to the normal diseases and pests of *Chamelaucium* have
been observed to date.
15 Temperature tolerance: From -2° C. to 35° C.
Drought tolerance: Very good tolerance for drought.

What is claimed is:

1. A new and distinct cultivar of *Chamelaucium* plant
named 'NIR EDEN' as herein illustrated and described.

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