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

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(54) ***COSMOS* PLANT NAMED 'HAMCOSP'**

(50) Latin Name: ***Cosmos hybrida***
Varietal Denomination: **Hamcosp**

(71) Applicant: **Keith Richard William Hammett**, Auckland (NZ)

(72) Inventor: **Keith Richard William Hammett**, Auckland (NZ)

(73) Assignee: **Kiwiflora Ltd.**, Kaiwaka (NZ)

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CPC ***A01H 5/02*** (2013.01)

(58) **Field of Classification Search**
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CPC A01H 5/025
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

http://www.greenhousegrower.com/varieties/cosmos-dark-secret-and-spellbound-are-new-introductions-from-planthaven/; May 28, 2013; 6 pages.*

* cited by examiner

Primary Examiner — Kent L Bell

(57) **ABSTRACT**

A new cultivar of *Cosmos* plant named 'Hamcosp' that is characterized by large diameter crimson red inflorescences with yellow pollen and broad pinnate leaves.

1 Drawing Sheet

Botanical classification: *Cosmos hybrida.*
Variety denomination: 'Hamcosp'.

CROSS-REFERENCE TO RELATED AND CO-PENDING APPLICATIONS

This application claims the benefit of priority under 35 U.S.C. 119(f) of the application for a grant of New Zealand Plant Breeders Rights which was filed for the instant plant variety on Aug. 28, 2013, Application Number 31572.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Cosmos* plant botanically known as *Cosmos hybrida* and hereinafter referred to by the cultivar name 'Hamcosp'.

'Hamcosp' originated from open pollination of the female or seed parent plant an unidentified proprietary *Cosmos atrosanguineus* (not patented). The male or pollen parent plant is unknown. The resulting seeds were subsequently harvested and grown. 'Hamcosp' was selected as a single plant from within the stated progeny in a controlled environment in Auckland, New Zealand in 2009.

Asexual reproduction of the new cultivar 'Hamcosp' first occurred by tissue culture in 2009 in Auckland, New Zealand. Since that time, under careful observation, the unique characteristics 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 *Cosmos* cultivar 'Hamcosp'. These traits in combination distinguish 'Hamcosp' as a new and distinct cultivar apart from other existing known varieties of *Cosmos.*

1. *Cosmos* 'Hamcosp' exhibits large diameter crimson red inflorescences with yellow pollen.
2. *Cosmos* 'Hamcosp' exhibits broad pinnate leaves.

The closest comparison cultivar is *Cosmos* 'Coco Mocha' (not patented). 'Hamcosp' is distinguishable from 'Coco Mocha' by the following characteristics:

1. 'Hamcosp' exhibits broad pinnate shaped leaves. In comparison, the leaves of 'Coco Mocha' are narrower and more finely divided.
2. 'Hamcosp' exhibits larger diameter inflorescences than the inflorescences of 'Coco Mocha'.
3. 'Hamcosp' exhibits inflorescences that are lighter red in color than the inflorescences of 'Coco Mocha'. The inflorescences of 'Coco Mocha' are dark maroon in color.

In comparison to the female or seed parent plant, an unidentified proprietary *Cosmos atrosanguineus*, 'Hamcosp' is distinguishable by the following characteristics:

1. 'Hamcosp' exhibits darker color red inflorescences than the inflorescences of the seed parent plant.
2. 'Hamcosp' exhibits larger diameter inflorescences than the inflorescences of the seed parent plant.

BRIEF DESCRIPTION OF THE DRAWING

The accompanying photograph illustrates the distinguishing traits of *Cosmos* 'Hamcosp'. The plants in the photograph show an overall view of a 3 month old plant grown outdoors in Auckland, New Zealand. 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.

BOTANICAL DESCRIPTION OF THE PLANT

The following is a detailed description of the new *Cosmos* cultivar named 'Hamcosp'. Data was collected in Auckland, New Zealand from 3 month old outdoor grown plants. The time of year was Summer in the Southern Hemisphere and the temperature range was 18-25 degrees Centigrade during the day and 6-12 degrees Centigrade at night. The light level was natural outdoor light. Color determinations are in accordance with The Royal Horticultural Society Colour Chart 2007 edition, except where general color terms of ordinary dictionary significance are used. The growing requirements are similar to the species. 'Hamcosp' 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 genotype.

Botanical classification: *Cosmos hybrida* 'Hamcosp'.

Use: Ornamental perennial.

Parentage: 'Hamcosp' originated from open pollination of the female or seed parent plant an unidentified proprietary *Cosmos atrosanguineus*.

Vigor: High.

Low temperature tolerance: USDA zone 9.

Propagation: Tissue culture.

Crop time: 7 weeks to produce a 4.5 inch container.

Root system: Fine and fibrous.

Growth habit: Upright and outwardly spreading.

Overall height: 86.5 cm.

Overall width: 85.5 cm.

Stem:

Stem shape.—Cylindrical.

Stem dimensions.—0.6 cm. in diameter and 30.9 cm. in length.

Stem texture.—Slightly pubescent.

Stem color.—144B.

Internode length.—9.0 cm.

Foliage:

Leaf arrangement.—Opposite.

Compound or single.—Single.

Quantity of leaves per plant.—280.

Texture.—Smooth (both surfaces).

Leaf shape.—Pinnate.

Leaf apex.—Acute.

Leaf base.—Acuminate.

Leaf margin.—Entire.

Leaf length.—12.6 cm.

Leaf width.—11.0 cm.

Young leaf color (*lower surface*).—146B.

Young leaf color (*upper surface*).—137A.

Mature leaf color (*lower surface*).—147B.

Mature leaf color (*upper surface*).—137A to 137B.

Vein color (*under surface*).—148B to 148C.

Vein color (*upper surface*).—147C.

Venation pattern.—Pinnate.

Leaf attachment.—Petiolate.

Petiole:

Petiole dimensions.—0.4 cm. in width, 0.3 cm. in height and 9.2 cm. in length.

Petiole color.—145B, margins 143A.

Infloescence:

Inflorescence arrangement.—Capitulum.

Natural flowering season.—Spring through Summer.

Fragrance.—Slight chocolate scent.

Inflorescence size.—4.3 cm. in diameter, 2.1 cm. in height.

Quantity of inflorescence per plant.—90.

Inflorescence bud length.—0.9 cm.

Inflorescence bud diameter.—1.1 cm.

Bud shape.—Flattened globose.

Bud color.—in between N186C and 187A.

Ray florets:

Arrangement.—Single outer circle.

Shape.—Obovate.

Dimensions.—2.2 cm. in length and 1.35 cm. in width.

Apex.—Truncate.

Base.—Obtuse.

Margin.—Entire.

Texture (*both surfaces*).—Puberulous.

Quantity of ray florets per inflorescence.—8.

Color (*lower surface*).—187A, veins N186C.

Color (*upper surface*).—59A.

Disc florets:

Arrangement.—Circular.

Shape.—Tubular.

Dimensions.—1.4 cm. in length and 0.3 cm. in width.

Apex.—Divergent stigmas.

Base.—Subtended from receptacle.

Margin.—Entire.

Texture (*both surfaces*).—Smooth.

Quantity of disc florets per inflorescence.—65.

Color (*both surfaces*).—in between N186C and 187A, middle section 180A, base 150D.

Peduncle:

Peduncle dimensions.—55.1 cm. in length and 0.3 cm. in width.

Peduncle angle.—0° (straight on top of lateral branch).

Peduncle color.—148A to 152A and 144A.

Peduncle strength.—Moderate.

Reproductive organs:

Androecium.—Present on disc florets only.

Anther shape.—Cylindrical.

Anther length.—0.4 cm.

Filament length.—0.5 cm.

Anther color.—203A.

Amount of pollen.—High.

Pollen color.—15A.

Gynoecium.—Present on disc florets only.

Pistil length.—1.0 cm.

Stigma shape.—Divergent bifid curved.

Stigma color.—187A.

Style length.—0.8 cm.

Style color.—187A.

Ovary dimensions.—0.3 cm. in length and 0.075 cm. in width.

Ovary color.—157D.

Fruit and seed production: Has not been observed.

Disease and pest resistance: Plants of the new cultivar have not been observed for disease and pest resistance.

The invention claimed is:

1. A new and distinct variety of *Cosmos* plant named 'Hamcosp' as described and illustrated.

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