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Probasco et al.

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(54) **HOP PLANT NAMED ‘HBC 369’**

(50) Latin Name: *Humulus lupulus*
Varietal Denomination: **HBC 369**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 85 days.

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(22) Filed: **Feb. 15, 2012**

(65) **Prior Publication Data**

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Related U.S. Application Data

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20, 2011.

(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.**
USPC **Plt./236**

(58) **Field of Classification Search**

USPC Plt./236
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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worldbrewingcongress.org/2012/abstracts/AbstractsDetail.
cfm?AbstractID=343](http://www.worldbrewingcongress.org/2012/abstracts/AbstractsDetail.cfm?AbstractID=343).*

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Primary Examiner — Wendy C Haas

(57) **ABSTRACT**

A new hop plant named ‘HBC 369’ is disclosed. The cones of
‘HBC 369’ mature in mid September, and yield a crop of 1600
to 2000 pounds per acre. ‘HBC 369’ is used for its unique
aromatic quality, resistance to powdery mildew, high alpha
acid content and exceptional yield.

3 Drawing Sheets

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Genus and species: *Humulus lupulus*.
Variety denomination: HBC 369.

**CROSS-REFERENCE TO RELATED
APPLICATIONS**

This application claims priority of provisional application
Ser. No. 61/519,359.

**STATEMENT REGARDING FEDERALLY
SPONSORED RESEARCH OR DEVELOPMENT**

None

BACKGROUND OF THE INVENTION

‘HBC 369’ is a product of a controlled breeding program
carried out by the inventors in the Yakima Valley of Washing-
ton state. ‘HBC 369’ was one of several seedlings resulting
from a cross made in 2001 of female parent ‘YCR 14’ (pat-
ented as ‘YCR Accession No. 14 U.S. Plant Pat. No. 12,213)
and male parent ‘986-2’ (not patented). A single plant of
‘HBC 369’ was selected in 2006, and in 2007 was expanded
to seven plants, which were then planted in the area of Top-
penish, Wash. The plants were observed and evaluated for
several years, and in 2010, 70 plants were expanded for fur-
ther observation and evaluation in the Toppenish, Wash. area.
Two one acre test plots of ‘HBC 369’ were established in 2010
and 2011. Throughout several generations of asexual propa-

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gation, ‘HBC 369’ has been observed to retain its distinctive
characteristics and remain true to type.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

FIG. 1 illustrates a cone of the ‘HBC 369 hop plant;
FIG. 2 illustrates leaves and cones of the ‘HBC 369’ hop
plant; and

FIG. 3 illustrates a mature ‘HBC 369’ hop plant grown on
a trellis.

The colors of these illustrations may vary with lighting
conditions and, therefore, color characteristics of this new
variety should be determined with reference to the observa-
tions described herein, rather than from these illustrations
alone.

DETAILED BOTANICAL DESCRIPTION

The following description is based on observations made
during the 2006-2010 growing seasons at Toppenish, Wash. It
should be understood that the characteristics described will
vary somewhat depending upon cultural practices and cli-
matic conditions, and can vary with location and season.
Quantified measurements are expressed as an average of mea-
surements taken from a number of individual plants of the
new variety. The measurements of any individual plant or any
group of plants, of the new variety may vary from the stated
average.

Species: *Humulus lupulus*.
Ploidy: Diploid.
Use: Brewing.
Disease susceptibility: ‘HBC 369’ is not resistant to hop
downy mildew. ‘HBC 369’ is resistant to powdery mildew. 5
Pest susceptibility: ‘HBC 369’ is not resistant to normal infes-
tations of hop aphid and normal infestations of two-spotted
spider mite.
Harvest date: September 10-20 (2006-2010 growing season,
Toppenish, Wash.). 10
Crop yield: 2000 pounds per acre.
Bine:
Color.—Yellow green 144C.
Stripe.—Absent.
Stipule direction.—Down-forked.
Stipule color.—Yellow green 144A.
Bine diameter.—8.4 mm at base; 8.3 mm at 9 feet; 8.0
mm at 18 feet.
Leaf:
Arrangement.—Opposite. 20
Shape.—Palmate to Cordate.
Average length of mature leaf.—14.8 cm.
Average width of mature leaf.—14.3 cm.
Color of mature leaf upper surface.—Yellow green
147A. 25
Color of mature leaf lower surface.—Yellow green
147B.
Color of immature leaf upper surface.—Yellow green
147A.
Color of immature leaf lower surface.—Yellow green 30
147B.
Number of lobes.—1-7.
Margin.—Serrate.
Serrations per inch.—4.3.
Average petiole length (mature).—11.1 cm. 35
Petiole color at base.—Yellow green 144C.
Venation.—Palmate.
Vein color.—Yellow green 144C.
Cone:
Average weight.—790 mg.
Average length.—3.5 cm.

Average diameter.—2.0 cm.
Bract tip color.—Yellow green 144B.
Bract base color.—Yellow green 149D.
Bracteole color.—Yellow green 149D.
Cone shape.—Ovoid.
Bract shape.—Ovate.
Bract tip shape.—Cuspidate.
Bract tip position.—Loosely Appressed.
Bracteole shape.—Ovate.
Pickability.—Good.
Aroma.—Blueberry, citrus, fruity, tropical, floral.
Cone storage.—15-20% loss of soft resins after 6 month
storage at room temperature.
Analytical characteristics:
Alpha acid (as % of cone weight).—11.5% to 13.5%.
Beta acid (as % of cone weight).—3.2% to 3.9%.
Cohumulone (as % of alpha acids).—24% to 26%.
Total oil.—1.5 mL per 100 g hops.
Storageability.—60% to 65% loss of alpha acids after 6
months storage at room temperature.
Essential oil profile—See Table 1.

TABLE 1

Essential Oil Profile of ‘HBC 369’ - Gas Chromatogram	
Component	%
β-pinene	0.95
Myrcene	54.11
3-methyl-butyl isobutyrate	0.11
Linalool	0.68
Caryophyllene	6.44
Farnesene	0.06
Humulene	13.20
Geraniol	1.16

What is claimed is:
1. A new and distinct hop plant as shown and described
herein. 40
* * * * *

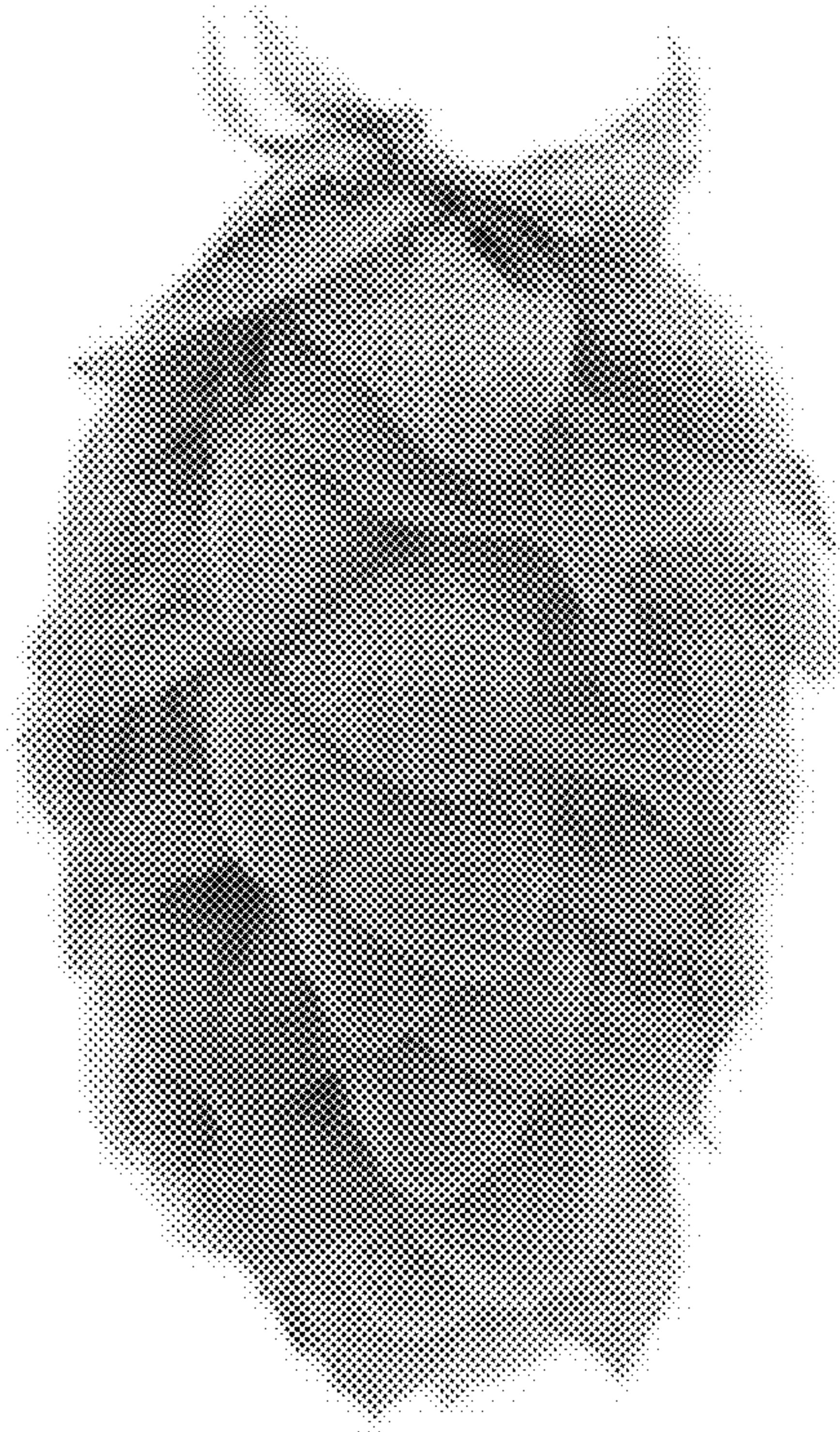


FIG. 1



FIG. 2



FIG. 3