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**Nelson et al.**

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(54) **STRAWBERRY PLANT NAMED ‘BG-12.3258’**

(50) Latin Name: *Fragaria ananassa*  
Varietal Denomination: **BG-12.3258**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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*A01H 6/74* (2018.01)

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See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS

PP25,865 P3 9/2015 Nelson et al.  
PP25,895 P3 9/2015 Nelson et al.

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(57) **ABSTRACT**  
This invention relates to a new and distinct variety of strawberry plant named ‘BG-12.3258’. This new strawberry plant named ‘BG-12.3258’ is primarily adapted to the growing conditions of the central coast of California, and is primarily characterized by its orange red to red fruit color, large fruit size, and conical fruit shape; very good fruit flavor, with seeds held even with the surface; medium plant size, semi-upright in habit, with medium vigor and density; medium yellow green foliage color, small foliage size, with three to four leaflets; fruiting trusses typically held beneath the foliage, with strong pubescence and very weak anthocyanins; and resistance to Fusarium wilt and moderate resistance to powdery mildew.

**5 Drawing Sheets**

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Latin name of the genus and species of the plant claimed: *Fragaria ananassa*.  
Variety denomination: ‘BG-12.3258’.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct strawberry variety named ‘BG-12.3258’. This new variety is a result of a controlled cross made in 2012 in an ongoing breeding program between strawberry variety designated ‘BG-6.3024’ (U.S. Plant Pat. No. 25,895) as the seed (female) parent, and strawberry variety designated ‘BG-7.3065’ (not patented) as the pollen (male) parent. The variety is botanically known as *Fragaria ananassa*.

The seedling resulting from the aforementioned cross was selected from a controlled breeding plot in Ventura County, Calif. in the spring of 2014. After its selection, the new variety was asexually propagated by stolons in both Siskiyou County, Calif. and San Joaquin County, Calif. The new variety was extensively tested over the next several years in fruiting fields in Ventura County, Calif. This propagation has demonstrated that the combination of traits disclosed herein as characterizing the new variety are fixed and remain true-to-type through successive generations of asexual reproduction.

**BRIEF SUMMARY OF THE INVENTION**

‘BG-12.3258’ is primarily adapted to the climate and growing conditions of the central coast of California. The

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nearby Pacific Ocean provides the humidity and moderate temperatures needed to produce a strong, vigorous plant and maintain fruit quality during the winter and spring production months.

5 The following traits have been repeatedly observed and are determined to be unique characteristics of ‘BG-12.3258’, which in combination distinguish this strawberry plant as a new and distinct variety:

1. Fruit ranges from orange red to red in color, large in size, and conical in shape;
2. Fruit has very good flavor, with seeds held even with the surface;
3. Plant is medium in size, semi-upright in habit, with medium vigor and density;
4. Foliage is medium yellow green in color, small in size, with three to four leaflets;
5. Fruiting trusses are typically held beneath the foliage, with strong pubescence and very weak anthocyanins; and
6. Plant is resistant to Fusarium wilt and moderately resistant to powdery mildew.

The strawberry variety that is believed to be most closely related to the new variety ‘BG-12.3258’ is ‘BG-6.3024’ (U.S. Plant Pat. No. 25,895). In side-by-side comparisons to the similar strawberry variety ‘BG-6.3024’, ‘BG-12.3258’ differs by the following combination of characteristics as described in Table 1.

TABLE 1

Characteristic	'BG-12.3258'	'BG-4.367' (U.S. Plant Pat. No. 25,865)
Fruit: Color	Ranges from orange red to red	Red
Fruit: L × W ratio	Much longer than broad	Slightly longer than broad
Fruit: Firmness of flesh	Medium to firm	Firm to very firm
Fruit: Flavor	Very good	Good to fair
Fruiting truss: Length	Short (21.3 cm)	Medium (25.7 cm)
Pedicel: Texture (pubescence)	Strong	Weak to medium

For identification, a series of molecular markers have been determined for this new variety.

'BG-12.3258' differs from its parents, 'BG-6.3024' and 'BG-7.3065' by the following combination of characteristics as described in Tables 2 and 3.

TABLE 2

Characteristic	'BG-12.3258'	'BG-6.3024' (U.S. Plant Pat. No. 25,895)
Fruit: color	Ranges from orange red to red	Red
Fruit: flavor	Very good	Excellent
Plant: size	Medium	Ranges from medium to large
Fruiting truss: anthocyanin intensity	Absent or very weak	Ranges from weak to medium
Disease and pest reactions:	Resistant	Susceptible
Fusarium wilt		

TABLE 3

Characteristic	'BG-12.3258'	'BG-7.3065' (not patented)
Fruit: color	Ranges from orange red to red	Orange red
Fruit: size	Large	Medium
Fruit: shape	Conical	Long conical
Fruit: insertion of achenes	Level with the surface	Ranges from level with to below the surface

BRIEF DESCRIPTIONS OF THE PHOTOGRAPHS

The accompanying color photographs illustrate the overall appearance of typical specimens of the new strawberry variety 'BG-12.3258' at various stages of development, as true as it is reasonably possible with color reproductions of this type. Color in the photographs may differ slightly from the color value cited in the botanical descriptions which accurately describe the color of 'BG-12.3258'. The depicted plant and plant parts of the new strawberry variety 'BG-12.3258' are approximately five to six months old. The photographs were taken in Ventura County, Calif.

FIG. 1 shows fruiting field characteristics of 'BG-12.3258', taken in the month of March 2022;

FIG. 2 shows upper and lower surfaces of flower and flower parts of 'BG-12.3258', taken in the month of April 2022;

FIG. 3 shows typical fruiting truss and truss parts of 'BG-12.3258', taken in the month of April 2022;

FIG. 4 shows upper and lower surfaces of leaf and leaf parts of 'BG-12.3258', taken in the month of April 2022; and

FIG. 5 shows internal and external mature fruit characteristics of 'BG-12.3258', taken in the month of April 2022.

DETAILED BOTANICAL DESCRIPTION

The new variety 'BG-12.3258' has not been observed under all possible environmental conditions. The characteristics of the new variety 'BG-12.3258' may vary in detail, depending upon variations in environmental factors, including weather (temperature, humidity and light intensity), day length, soil type and location. In addition, the characteristics of any parental variety or comparison variety included in Tables 1, 2 and 3 of the present invention may vary in detail, depending upon variations in environmental factors, including weather (temperature, humidity and light intensity), day length, soil type and location.

The aforementioned photographs, together with the following description of the new variety 'BG-12.3258', unless otherwise noted, are based on observations taken during the 2022 growing season in Ventura County, Calif. These measurements and ratings were taken from plants of 'BG-12.3258' dug from a high-elevation nursery located in Siskiyou County, Calif. during early October 2021 and planted approximately four to five days later in Ventura County, Calif. The approximate age of the observed plants is five to six months. Yield observations including average weight and marketable yield, along with fruit quality characteristics including soluble solids, are averaged from six years of data collected from the 2016 through 2021 growing seasons. Flower measurements and characteristics are from secondary flowers unless otherwise noted. Fruit characteristics and measurements are from secondary fruit, unless otherwise noted.

Where noted, color terminology follows The Royal Horticultural Society Colour Chart, London, Sixth Edition (2015).

The following characteristics describe fruit, plant, stolon, foliage, fruiting truss, flower, reproductive organs and pest and disease characteristics of the new strawberry 'BG-12.3258'.

Fruit characteristics:

*Color of mature fruit.*—RHS 44A (ranges from orange red to red).

*Color of internal flesh (excluding core).*—RHS 43A (ranges from light red to medium red).

*Color of core.*—RHS 39B (medium red).

*Average length (cm).*—5.5.

*Average width (cm).*—4.3.

*Size.*—Large.

*Average length/width ratio.*—1.27 (much longer than broad).

*Hollow center average length (mm).*—2.4.

*Hollow center average width (mm).*—1.3.

*Hollow center expression.*—Moderate.

*Season average weight (gm).*—31.5.

*Marketable yield season (gm/plant).*—1,089.

*Predominant shape.*—Conical.

*Difference in shape between primary and secondary fruit.*—Moderate.

*Band without achenes.*—Narrow.

*Evenness of surface.*—Slightly uneven.

*Evenness of color.*—Even or very slightly uneven.

*Glossiness*.—Medium.  
*Insertion of achenes*.—Level with surface.  
*Average calyx diameter (cm)*.—4.5.  
*Position of calyx attachment*.—Inserted.  
*Attitude of sepals*.—Outward.  
*Size of calyx in relation to fruit diameter*.—Slightly larger.  
*Adherence of calyx (when fully ripe)*.—Strong.  
*Firmness of flesh*.—Ranges from medium to firm.  
*Keeping quality*.—Good.  
*Fruit market*.—Fresh.  
*Post-harvest fruit longevity (at 1 to 3 degrees celsius)*.—7 to 10 days.  
*Distribution of red color of the flesh*.—Marginal and central.  
*Flavor*.—Very good.  
*Soluble solids (% brix)*.—9.6.  
*Achene color, shaded side*.—RHS 152D (yellow green group).  
*Achene color, sun-exposed side*.—RHS 183B (greyed purple group).  
*Achene average length (mm)*.—1.8.  
*Achene average width (mm)*.—0.9.  
*Achene average weight (mg)*.—0.55.  
*Achene average quantity per berry*.—497.  
*Achene shape*.—Elliptic.

Time of flowering:  
*Flowering season (50% of plants with at least one flower)*.—Medium (December in Ventura County, Calif.).  
*Maturing season (50% of plants with mature fruit)*.—Medium (January in Ventura County, Calif.).  
*Flowering season*.—November to May (in Ventura County, Calif.).  
*Harvest season*.—December to June (in Ventura County, Calif.).  
*Harvest maturity*.—April (in Ventura County, Calif.).  
*Plant hardiness*.—Zone 10 (USDA Plant Hardiness Zone Map).  
*Type of bearing*.—Not remontant.

Plant characteristics:  
*Average height (cm)*.—18.6.  
*Average spread (cm)*.—32.7.  
*Size*.—Medium.  
*Habit*.—Semi-upright.  
*Density*.—Medium.  
*Vigor*.—Medium.

Stolon characteristics:  
*Color*.—RHS 146D (yellow green group).  
*Anthocyanin coloration*.—RHS 181B (greyed red group).  
*Anthocyanin intensity*.—Weak.  
*Pubescence*.—Medium.  
*Attitude of hairs*.—Slightly outward.  
*Average quantity in nursery (per square foot)*.—5 to 8 (medium).  
*Average diameter at the first bract (mm)*.—3.6 (thick).  
*Length from mother plant to first daughter (cm)*.—34.1.

Terminal leaf characteristics:  
*Average length (cm)*.—5.7.  
*Average width (cm)*.—5.1.  
*Average area terminal (cm<sup>2</sup>)*.—29.3.  
*Average length/width ratio*.—1.11 (longer than broad).  
*Shape of base*.—Obtuse.  
*Shape of apex*.—Obtuse.  
*Margins (shape of teeth)*.—Obtuse (serrate to crenate).  
*Average serrations per leaf*.—18.8.

Foliage characteristics:  
*Color of upper surface*.—RHS N137A (medium yellow green).  
*Color of lower surface*.—147C (yellow green group).  
*Color of venation, upper surface*.—RHS 137D (green group).  
*Color of venation, lower surface*.—RHS 145C (yellow green group).  
*Number of leaflets*.—3 to 4.  
*Foliage size*.—Small.  
*Average length (cm)*.—8.3.  
*Average width (cm)*.—11.2.  
*Average area foliage (cm<sup>2</sup>)*.—93.3.  
*Shape in cross section*.—Slightly concave.  
*Interveinal blistering*.—Ranges from medium to strong.  
*Texture of upper surface*.—Medium.  
*Texture of lower surface*.—Smooth.  
*Venation pattern*.—Pinnate reticulate.  
*Leaf glossiness*.—Medium.  
*Leaf variegation*.—Absent.

Petiole characteristics:  
*Petiole color*.—RHS 146D (yellow green group).  
*Petiole average length (cm)*.—11.9.  
*Petiole average diameter (mm)*.—2.7.  
*Attitude of hairs*.—Slightly outward.  
*Frequency of bract leaflets*.—0% occurrence (none).  
*Size of bract leaflets*.—N/A.  
*Pubescence*.—Moderate.  
*Petiolule color*.—RHS 146D (yellow green group).  
*Petiolule average length (mm)*.—4.2.  
*Petiolule average diameter (mm)*.—1.5.

Stipule characteristics:  
*Color*.—RHS 146D (yellow green group).  
*Anthocyanin coloration*.—RHS 63B (red purple group).  
*Anthocyanin intensity*.—Ranges from medium to strong.  
*Average length (mm)*.—12.9.  
*Average width (mm)*.—7.8.  
*Shape*.—Triangular.  
*Texture*.—Light.  
*Shape of base*.—N/A.  
*Shape of apex*.—Acute.  
*Margins*.—Entire (smooth).

Fruiting truss characteristics:  
*Anthocyanin coloration*.—RHS 179C (greyed red group).  
*Anthocyanin intensity*.—Absent or very weak.  
*Average length at maturity (cm)*.—21.3.  
*Position relative to foliage*.—Beneath.  
*Flower quantity (season average per plant)*.—40 to 50 (medium).  
*Average fruit quantity per truss*.—6.8 (medium).  
*Attitude at first pick*.—Prostrate.  
*Primary pedicel color*.—RHS 146C (yellow green group).  
*Primary pedicel average length (cm)*.—17.3.  
*Primary pedicel average diameter (mm)*.—2.6.  
*Pedicel attitude of hairs*.—Strongly outward.  
*Pedicel texture*.—Strong.  
*Primary peduncle color*.—RHS 146C (yellow green group).  
*Primary peduncle average length (cm)*.—0.9.  
*Primary peduncle average diameter (mm)*.—8.7.  
*Peduncle texture*.—Strong.

## Flower characteristics:

*Petal color, upper surface.*—RHS NN155C (white group).  
*Petal color, lower surface.*—RHS NN155C (white group).  
*Petal average length (mm).*—10.7.  
*Petal average width (mm).*—11.2.  
*Petal average length/width ratio.*—0.96 (as long as broad).  
*Average petal quantity per flower.*—6.3.  
*Petal shape.*—Obovate.  
*Petal texture, upper surface.*—Smooth.  
*Petal texture, lower surface.*—Smooth.  
*Petal shape of base.*—Obtuse.  
*Petal shape of apex.*—Rounded.  
*Petal margins.*—Entire (smooth).  
*Sepal color, upper surface.*—RHS 137B (green group).  
*Sepal color, lower surface.*—RHS 138B (green group).  
*Sepal average length (mm).*—15.3.  
*Sepal average width (mm).*—7.8.  
*Sepal average length/width ratio.*—1.96.  
*Average sepal quantity per flower.*—12.8.  
*Sepal shape.*—Ovate.  
*Sepal texture, upper surface.*—Light.  
*Sepal texture, lower surface.*—Light.  
*Sepal shape of apex.*—Acute.  
*Sepal margins.*—Entire (smooth).  
*Corolla average diameter (mm).*—26.9 (medium).  
*Flower average depth (mm).*—7.8 (shallow).  
*Calyx average diameter (mm).*—38.5.  
*Size of calyx relative to corolla.*—Larger.

*Relative position of petals (flowers with 5 or 6 petals).*—Ranges from touching to overlapping.

*Size of inner calyx relative to outer calyx.*—Smaller.

## Reproductive organs:

*Anther color.*—RHS 13A (yellow group).

*Filament color.*—RHS 145C (yellow green group).

*Filament average length (mm).*—2.2.

*Anther average length (mm).*—1.2.

*Anther average width (mm).*—1.0.

*Anther shape.*—Elliptic.

*Pollen amount.*—Abundant.

*Ovary color.*—RHS 147C (yellow green group).

*Style color.*—RHS 151D (yellow green group).

*Pistil average quantity per flower.*—497.

*Pistil average length (mm).*—1.2.

*Style average length (mm).*—1.1.

*Stigma average diameter (mm).*—0.4.

*Stigma shape.*—Rounded.

## Disease and pest reactions:

*Powdery mildew (sphaerotheca macularis).*—Moderately resistant.

*Botrytis fruit rot (botrytis cinerea).*—Moderately susceptible.

*Fusarium wilt (fusarium oxysporum).*—Resistant.

*Two-spotted spider mite (tetranychus urticae).*—Moderately susceptible.

## We claim:

1. A new and distinct strawberry plant named 'BG-12.3258', as herein described and illustrated by the characteristics set forth above.

\* \* \* \* \*

FIG. 1



FIG. 2



FIG. 3

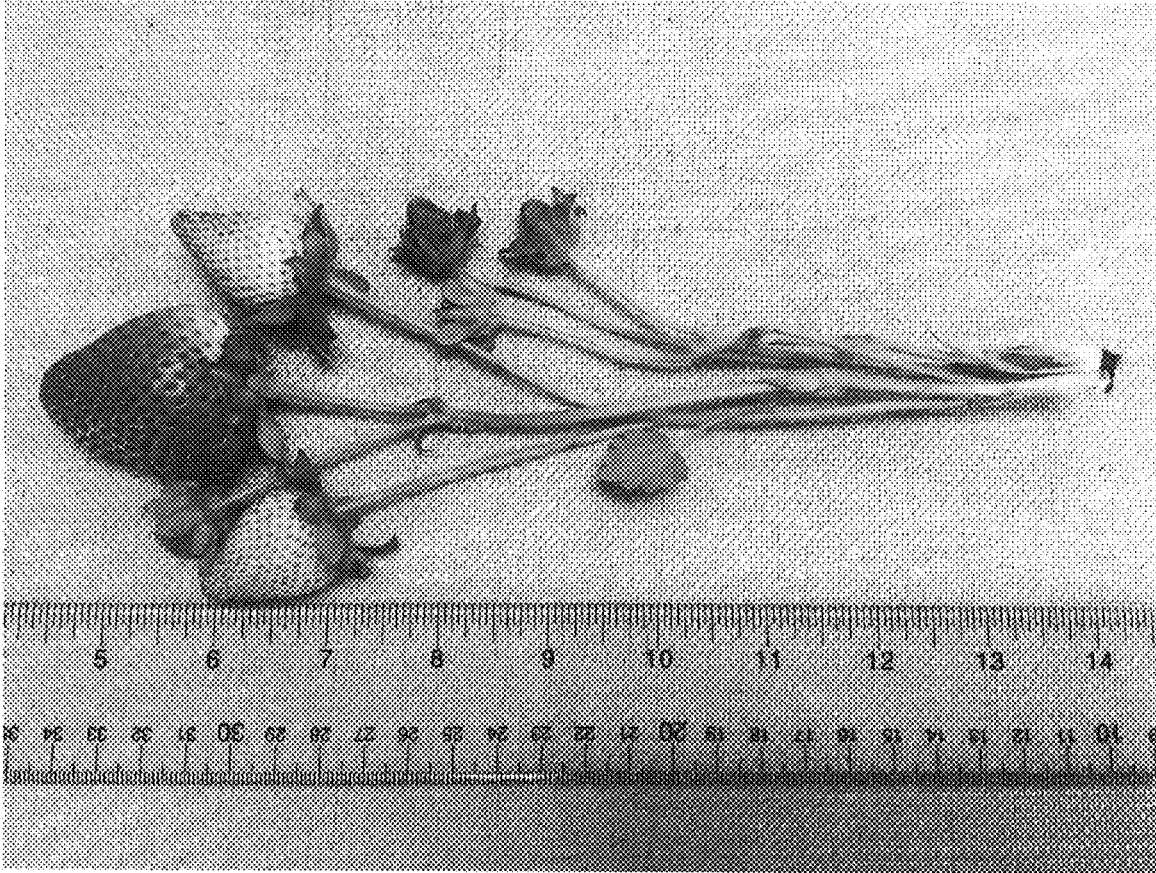


FIG. 4

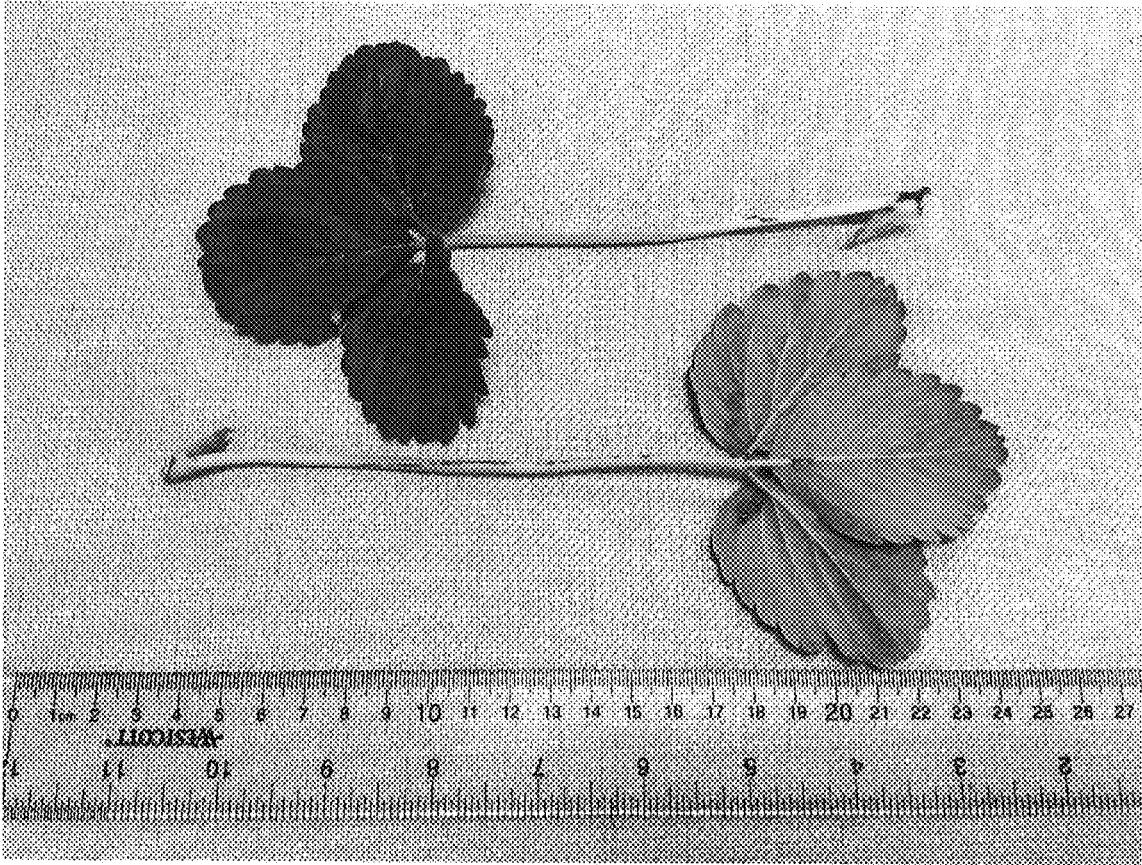


FIG. 5

