



US00PP33717P3

(12) **United States Plant Patent**
Bell(10) **Patent No.:** US PP33,717 P3
(45) **Date of Patent:** Dec. 7, 2021(54) **BLUEBERRY PLANT NAMED 'RIDLEY1702'**(50) Latin Name: *Vaccinium* hybrid
Varietal Denomination: Ridley1702(71) Applicant: **MOUNTAIN BLUE ORCHARDS, PTY LTD**, Lindendale (AU)(72) Inventor: **Ridley Bell**, Lindendale (AU)(73) Assignee: **Mountain Blue Orchards, Pty Ltd**, Lindendale (AU)

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

(21) Appl. No.: **17/178,640**(22) Filed: **Feb. 18, 2021**(65) **Prior Publication Data**

US 2021/0274693 P1 Sep. 2, 2021

Related U.S. Application Data

(60) Provisional application No. 62/979,329, filed on Feb. 20, 2020.

(51) **Int. Cl.***A01H 5/08* (2018.01)*A01H 6/36* (2018.01)(52) **U.S. Cl.**

USPC Plt./157

(58) **Field of Classification Search**

USPC Plt./157

CPC ... A01H 5/08; A01H 5/02; A01H 5/00; A01H

6/36; A01H 6/368

See application file for complete search history.

(56)

References Cited

U.S. PATENT DOCUMENTS

PP25,432 P3 4/2015 Bell

Primary Examiner — June Hwu(74) *Attorney, Agent, or Firm* — Plant & Planet Law Firm(57) **ABSTRACT**

The new blueberry plant variety 'Ridley1702' is provided. 'Ridley1702' is a commercial variety intended for use as fresh fruit for shipping, hand pick, customer pick, machine harvest and processing markets and as a home garden plant. The variety is produced from a cross of 'Ridley1403' and 'Ridley1812', which can be distinguished by its outstanding features.

7 Drawing Sheets**1**

Latin name of the genus, and species:

Genus—*Vaccinium*.

Species—hybrid.

Variety denomination: The new blueberry plant claimed is of the variety denominated 'Ridley1702'.
10**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct perennial variety of *Vaccinium* hybrid (Southern Highbush Blueberry), which has been given the variety denomination of 'Ridley1702'. Its market class is that of a fruiting plant. 'Ridley1702' is intended for use as fresh fruit for shipping, customer pick and processing markets and as a home garden plant.

The new *Vaccinium* hybrid variety is a selection resulting from seedlings produced in a breeding program of *Vaccinium* at Lindendale, NSW, Australia in 2011 from the controlled pollination of seed parent 'Ridley1403' (U.S. Plant Pat. No. 25,432) with pollen parent 'Ridley1812' (not patented). The new variety was discovered and selected as a single plant within a population of 100 resulting *Vaccinium* hybrid plants from this controlled pollination in 2014 in a commercial field plantation environment at Tabulam, New South Wales, Australia. Selection criteria were a combination of strong plant growth vigor, upright/whippy plant growth habit, mid-season time of flowering and fruit ripening, ease of harvest, very large fruit, good flavor, very firm, very crunchy, loose clusters and very good bloom.

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The selection was subsequently evaluated for a number of years at the commercial farms at Tabulam, New South Wales, Australia.

5 Asexual reproduction of the new variety by cutting propagation since 2014 at Lindendale, New South Wales, Australia has demonstrated that the new variety reproduces true to type with all of the characteristics, as herein described, firmly fixed and retained through successive generations of such asexual propagation.

SUMMARY OF THE INVENTION

15 The new *Vaccinium* hybrid variety is a selection resulting from seedlings produced in a breeding programme of *Vaccinium* at Lindendale, NSW, Australia in 2011 from the controlled pollination of seed parent 'Ridley1403' (U.S. Plant Pat. No. 25,432) with pollen parent 'Ridley1812' (not patented). The seed parent was produced from a seedling selection of 'S02-25-05' (not patented) and pollen parent 'S03-08-02' (not patented). The pollen parent was produced from a seedling selection of 'S01-28-01' (not patented) and pollen parent 'S01-23-01' (not patented).

20 Plants of the new variety differ from plants of the seed parent 'Ridley1403' primarily in bush structure being upright/whippy, larger fruit size, stronger bloom, firmer and crunchier berries and better suitability to machine harvest. Plants of the new variety differ from plants of the pollen parent 'Ridley1812' primarily in having an earlier season and larger fruit size with firmer and crunchier berries that are better suited to machine harvest.
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The new blueberry variety was designated 'Ridley1702', and has been planted in replicated trials since 2017.

The new *Vaccinium* hybrid variety is a selection resulting from seedlings produced in a controlled breeding program of *Vaccinium* at Lindendale, NSW, Australia from the controlled pollination in 2011 of seed parent 'Ridley1403' with pollen parent 'Ridley1812'.⁵

Asexual reproduction of the new variety by softwood cutting propagation since 2014 at Lindendale, New South Wales has demonstrated that the new variety reproduces true to type with all of the characteristics, as herein described, firmly fixed and retained through successive generations of such asexual propagation.¹⁰

The new *Vaccinium* hybrid variety is a selection resulting from seedlings produced in a breeding program of *Vaccinium* at Lindendale, NSW, Australia in 2011 from the controlled pollination of seed parent 'Ridley1403' with pollen parent 'Ridley1812'. The new variety was discovered and selected as a single plant within a population of 100 resulting *Vaccinium* hybrid plants from this controlled pollination in 2014 in a commercial field plantation environment at Tabulam, New South Wales, Australia. Selection criteria were a combination of strong plant growth vigor, upright/whippy plant growth habit, mid-season time of flowering and fruit ripening, ease of harvest, very large fruit, good flavor, very firm, very crunchy, loose clusters and very good bloom.¹⁵

The selection was subsequently evaluated for a number of years at the commercial farms at Tabulam, New South Wales, Australia.²⁰

The following characteristics of the new variety have been repeatedly observed and can be used to distinguish 'Ridley1702' as a new and distinct variety of *Vaccinium* hybrid plant:²⁵

1. Upright/whippy growth habit
2. Strong plant vigor
3. High yield
4. Early season
5. Very crunchy
6. Very firm
7. Good (sweet) flavor
8. Loose clusters
9. Very good bloom
10. Very large fruit size
11. Suitability to machine harvest

Plants of the new variety differ from plants of the seed parent 'Ridley1403' primarily in bush structure being upright/whippy, larger fruit size, stronger bloom, firmer and crunchier berries and better suitability to machine harvest. Plants of the new variety differ from plants of the pollen parent 'Ridley1812' primarily in having an earlier season and larger fruit size with firmer and crunchier berries that are better suited to machine harvest.⁵⁰

Asexual reproduction of the new variety by cutting propagation since 2014 at Lindendale, New South Wales, Australia has demonstrated that the new variety reproduces true to type with all of the characteristics, as herein described, firmly fixed and retained through successive generations of such asexual propagation.⁶⁰

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying photographic illustration shows typical specimens in full color of the foliage and fruit of the new

variety 'Ridley1702'. The colors are as nearly true as is reasonably possible in a color representation of this type.

FIG. 1 is a photograph of the new variety 'Ridley1702', demonstrating the plant's upright/whippy growth habit.⁵

FIG. 2 is a photograph of the fruit of the new variety 'Ridley1702'.¹⁰

FIG. 3 is a photograph of the flowers of the new variety 'Ridley1702'.¹⁵

FIG. 4 is a photograph of the leaves of the new variety 'Ridley1702'.²⁰

FIG. 5 is a photograph of the leaves, fruit, new shoot and fruit cluster of the new variety 'Ridley1702'.²⁵

FIG. 6 is a photograph of a vegetative shoot of the variety 'Ridley1702'.³⁰

FIG. 7 is a photograph of fruit cross section of the variety 'Ridley1702'.³⁵

The colors in the photographs are as close as possible with the photographic and printing technology utilized. The color values cited in the detailed botanical description accurately describe the colors of the new blueberry.

DETAILED BOTANICAL DESCRIPTION

The following detailed description sets forth the distinctive characteristics of 'Ridley1702'. The data which define these characteristics were collected from asexual reproductions of the original selection. Dimensions, sizes, colors, and other characteristics are approximations and averages set forth as accurately as possible. The plant history was taken on plants approximately 1-2 years of age, and the descriptions relate to plants grown in the field in Tabulam, New South Wales, Australia. Descriptions of fruit characteristics were made on fruit grown in Tabulam, New South Wales, Australia. Color designations are from Tabulam, New South Wales, Australia. Color notations are based on *The Royal Horticultural Society Colour Chart*, of The Royal Horticultural Society, London, sixth edition.

Classification:

- a. Family.—Ericaceae.
- b. Genus.—*Vaccinium*.
- c. Species.—hybrid.
- d. Common name.—Southern Highbush Blueberry.

Parentage: Female Parent.—'Ridley1403'. Male Parent.—'Ridley1812'.⁴⁰

Market class: a fruiting plant intended for use as fresh fruit for shipping, hand pick, customer pick, machine harvest and processing markets and as a home garden plant.⁴⁵

PLANT

General:

Parentage.—Female Parent — 'Ridley1403'. Male Parent — 'Ridley1812'.⁵⁰

Plant height.—1.4-1.8 m (1.68 m).

Plant width.—1-1.5 m (1.25 m).

Growth habit.—Upright/whippy.

Growth.—Strong.

Productivity.—5.3 kg/plant on 2-year old bushes.

Leafing.—Vegetative bud burst is medium.

Twigginess.—Low to moderate.

STEM

General:

Suckering tendency.—Low; <5 canes/plant.

Mature cane color.—199D/197D.

Mature cane length.—1.2-1.6 m.

Mature cane width.—1.5-2.8 cm.

TABLE 1-continued

Leaf	margin	entire
Flower bud	anthocyanin coloration	weak
Flower	shape of corolla	urceolate
Flower	size of corolla tube	medium
Flower	anthocyanin coloration of corolla tube	absent or very weak
Flower	ridges on corolla tube	present
Fruit cluster	density	Medium-loose
Unripe fruit	intensity of green color	light
Fruit	size	Very large
Fruit	shape in longitudinal section	oblanceolate
Fruit	attitude of sepals	erect
Fruit	diameter of calyx basin	large
Fruit	depth of calyx basin	deep
Fruit	intensity of bloom	Medium to strong
Fruit	color of skin	Dark blue
Fruit	firmness	very firm
Fruit	sweetness	Medium to high
Fruit	acidity	Low to medium
Time of	vegetative bud burst	medium
Time of	beginning of flowering	medium
Time of	beginning of fruit ripening	medium

Organ 'Ridley1403' (U.S.
 Plant Pat. No. 25,432)

Plant	Medium	strong
Plant	upright	upright to semi-upright
One-year-old shoot	green	green
One-year-old shoot	medium	medium
Leaf	Long- very long	long to very long

TABLE 1-continued

5	Leaf	broad	broad
	Leaf	elliptic	elliptic
	Leaf	green	green
	Leaf	medium	medium
	Leaf	entire	entire
	Flower bud	weak	weak
10	Flower	urceolate	urceolate
	Flower	medium	medium to large
	Flower	absent or very weak	absent or very weak
	Flower	present	present
	Fruit cluster	medium	Medium to dense
	Unripe fruit	light	light
15	Fruit	Large-very large	very large
	Fruit	oblanceolate	round
	Fruit	erect	erect
	Fruit	large to very large	large
	Fruit	Deep to very deep	deep
	Fruit	medium	medium
	Fruit	dark blue	dark blue
	Fruit	medium	very firm
	Fruit	Medium to high	high
20	Fruit	Medium to high	low
	Time of	medium	Early to medium
	Time of	late	Early to medium
	Time of	late	Early to medium

25 The invention claimed is:

1. A new and distinct variety of blueberry plant named 'Ridley1702', substantially as illustrated and described herein.

* * * * *



FIG. 1



FIG. 2



FIG. 3

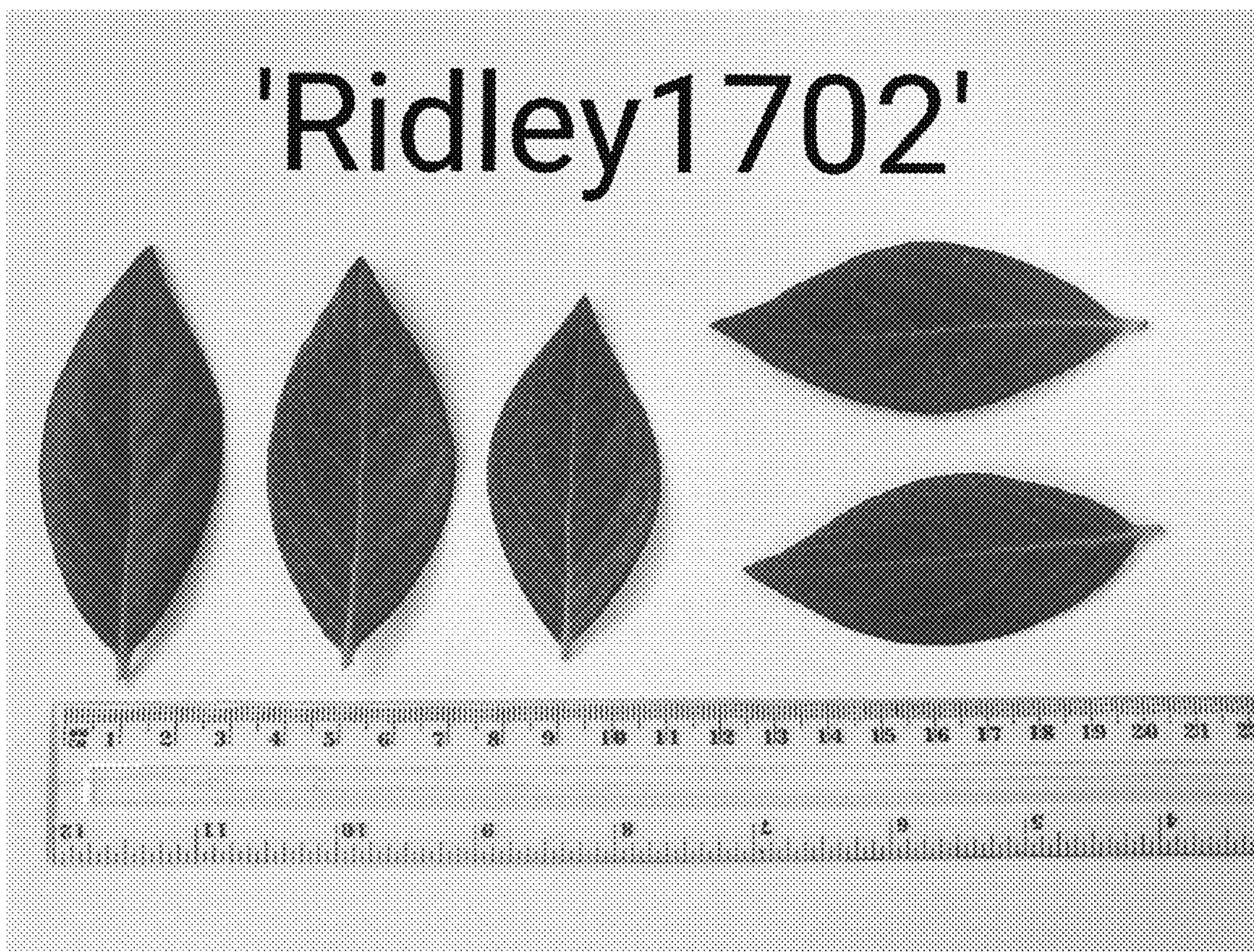


FIG. 4

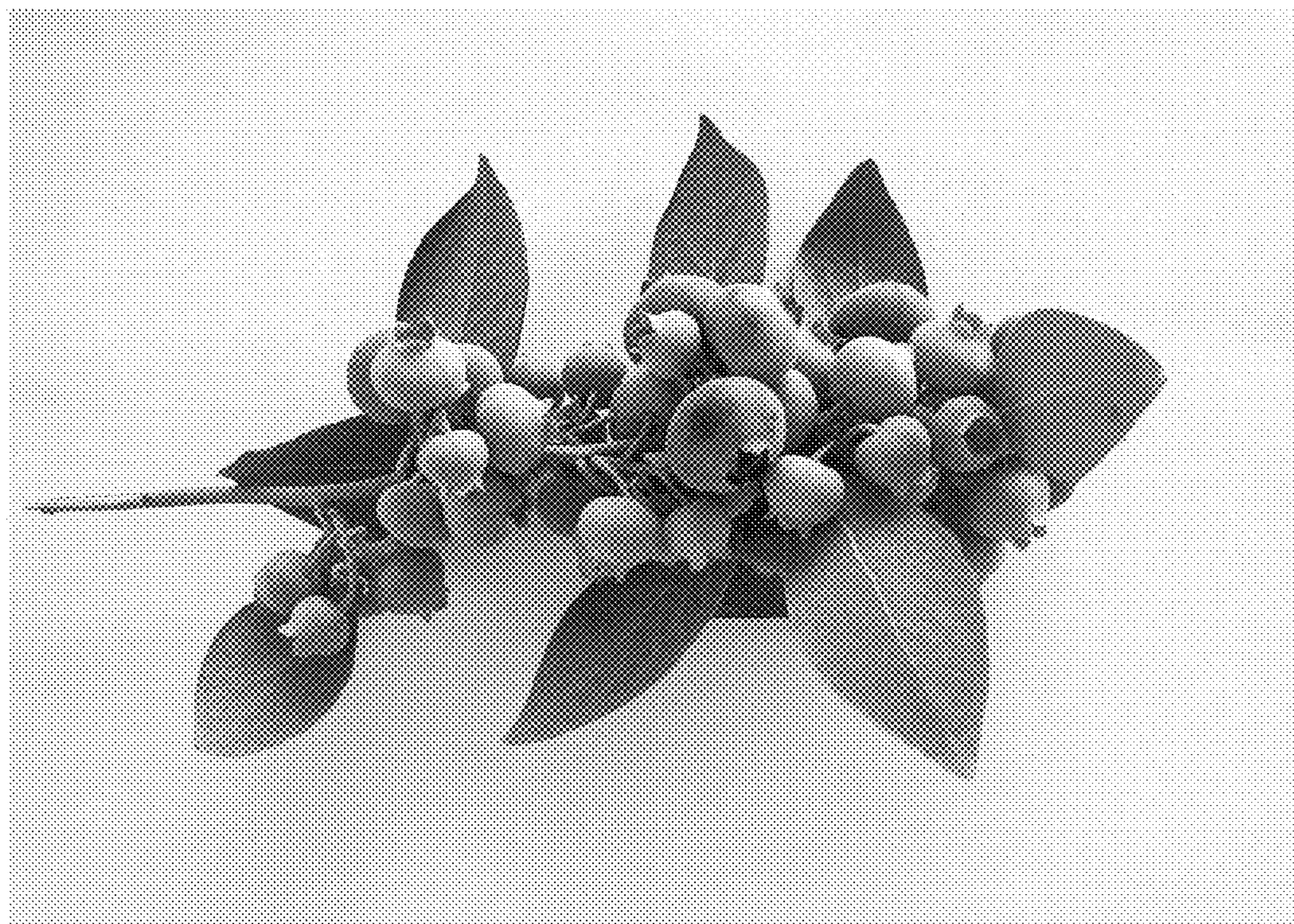


FIG. 5



FIG. 6

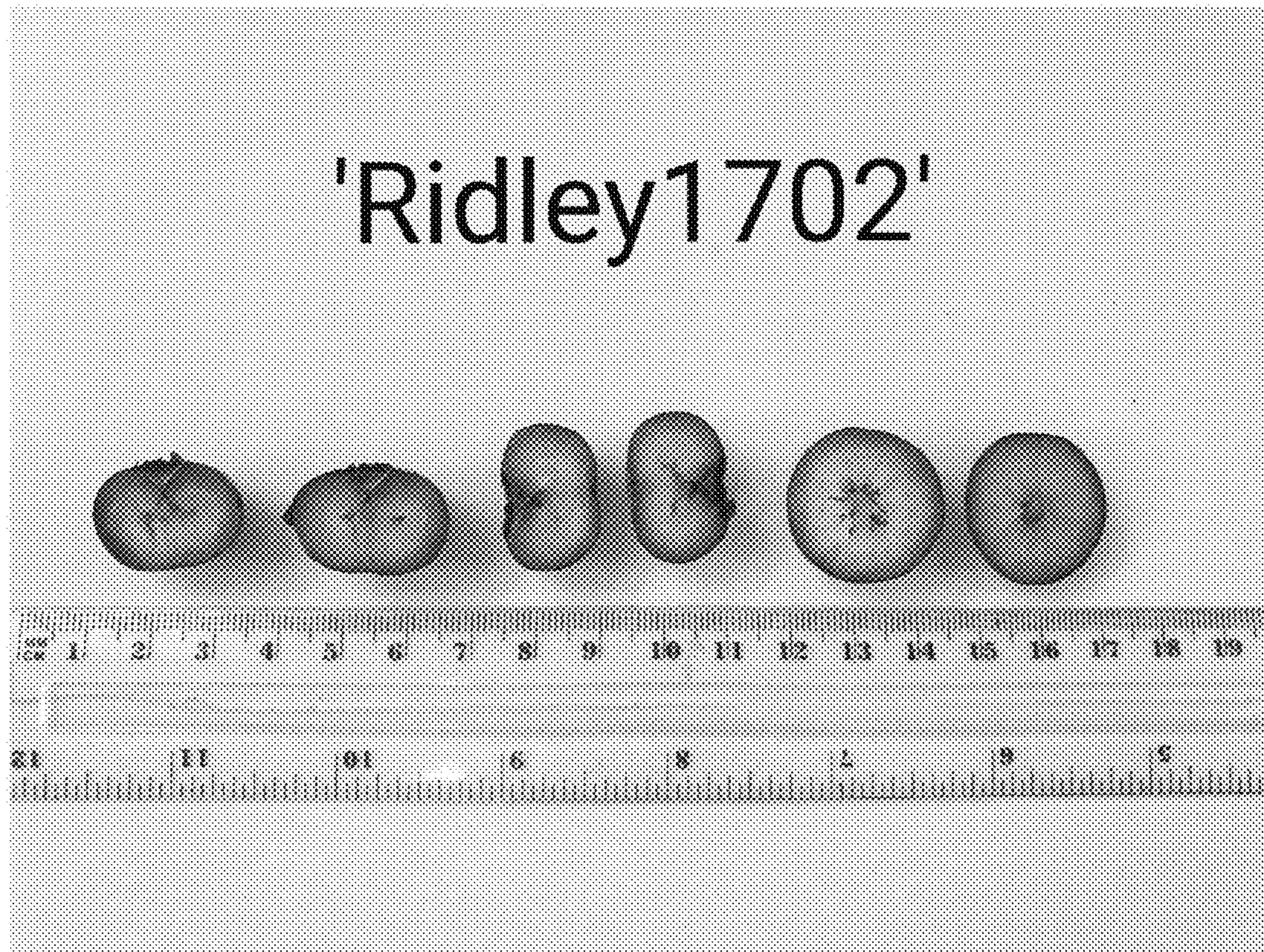


FIG. 7

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : PP33,717 P3
APPLICATION NO. : 17/178640
DATED : December 7, 2021
INVENTOR(S) : Bell

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

Item (54), please correct the title: "Blueberry Plant Named 'Ridley1702'" should read --Blueberry Plant Named 'Ridley 1702'--

Item (50), please correct the Varietal Denomination: "Ridley1702" should read --Ridley 1702--

In the Specification

Column 1, Line 5, please correct the Variety Denomination: "'Ridley1702'" should read --'Ridley 1702'--

Signed and Sealed this
Twelfth Day of April, 2022



Drew Hirshfeld
*Performing the Functions and Duties of the
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office*