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Caster et al.

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(54) **BLUEBERRY PLANT NAMED**
'DRISBLUETWO'

(50) Latin Name: *Vaccinium corymbosum*
Varietal Denomination: **DrisBlueTwo**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

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A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./157**

(58) **Field of Classification Search** **Plt./157**
See application file for complete search history.

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(57) **ABSTRACT**

This invention relates to a new and distinct cultivar of blue-
berry plant named 'DrisBlueTwo' primarily characterized by
medium-large berries with medium sweetness, medium acid-
ity, and a nearly spherical berry shape and berries that have
green flesh, is disclosed.

2 Drawing Sheets

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Genus and species: *Vaccinium corymbosum*.
Variety denomination: 'DrisBlueTwo'.

BACKGROUND OF THE NEW PLANT

The present invention relates to a new and distinct blue-
berry cultivar designated 'DrisBlueTwo' and botanically
known as *Vaccinium corymbosum*. This new blueberry culti-
var was discovered in Watsonville in Santa Cruz County,
Calif. in September 2000 and originated from a cross between
the female parent blueberry plant 'Magnolia' (unpatented)
and the proprietary male parent blueberry plant 'MS189'
(unpatented).

The original seedling of the new cultivar was asexually
propagated at a nursery in Watsonville in Monterey County,
Calif. 'DrisBlueTwo' was subsequently asexually propagated
and underwent further testing at a nursery in Watsonville in
Santa Cruz County, Calif. for seven years. 'DrisBlueTwo' has
been asexually propagated via softwood cuttings. The present
invention has been found to be stable and reproduce true to
type through successive asexual propagations.

SUMMARY OF THE INVENTION

The following are the most outstanding and distinguishing
characteristics of this new cultivar when grown under normal
horticultural practices in Watsonville in Santa Cruz, Calif.

1. Medium-large berries with medium sweetness;
2. Medium acidity and a nearly spherical berry shape; and
3. Berries that have green flesh.

DESCRIPTION OF THE PHOTOGRAPHS

The accompanying color photographs show typical speci-
mens of the new cultivar at various stages of development as
nearly true as it is possible to make in color reproductions.
The photos are of plants that are seven years old.

FIG. 1 shows a close-up of a leaf cluster.

FIG. 2 shows a close-up of both the upper surface and lower
surface of the leaves.

FIG. 3 shows a close-up of the mature flowers.

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FIG. 4 shows a close-up of the whole fruit and a cross-
section of the fruit.

DESCRIPTION OF THE NEW CULTIVAR

The following description of 'DrisBlueTwo' is based on
observations taken from the 2007 growing season in Santa
Cruz, Calif., where the age of the 'DrisBlueTwo' plants was 7
years, while the age of the O'Neal plants were 12 years old.
All descriptions are in accordance with UPOV terminology.
Color designations, color descriptions, and other phenotypi-
cal descriptions may deviate from the stated values and
descriptions depending upon variation in environmental, sea-
sonal, climatic and cultural conditions. 'DrisBlueTwo' has
not been observed under all possible environmental condi-
tions. Color terminology follows The Royal Horticultural
Society Colour Chart, London (R.H.S.) (2001).

DETAILED BOTANICAL DESCRIPTION

Table 1 shows plant characteristics of the new variety com-
pared with plant characteristics of blueberry plant 'O'Neal'
(unpatented). Table 1 includes plant, canopy and cane char-
acteristics.

TABLE 1

Characteristic	'DrisBlueTwo'	'O'Neal'
Plant:		
Vigor	Strong	Low
Growth habit	Spreading to ascending shrub	Bushy
Chilling requirement	Medium; believed to be no more than 500-600 hours below 45° C. based on observations in Watsonville, California	Medium
Hardiness	At least to USDA Zone 9b based on performance in	

TABLE 1-continued

Characteristic	'DrisBlueTwo'	'O'Neal'
Propagation	Watsonville, California From softwood cuttings	From softwood cuttings
<u>Canopy:</u>		
Bush height (cm)	129	134
Canopy width (cm)	133	124
Height/Width ratio	1.0	1.1
<u>Canes:</u>		
Mature cane diameter (cm)	0.836	0.734
Mature cane length (cm)	78.2	69.0
Mature cane color	RHS 146C (yellow-green)	RHS 138A (green)
Cane renewal	Medium	Weak

Table 2 shows plant characteristics of the new variety compared with plant characteristics of blueberry plant 'O'Neal' (unpatented). Table 2 includes bud, calyx, corolla, flower and pedicel characteristics.

TABLE 2

Characteristic	'DrisBlueTwo'	'O'Neal'
<u>Bud:</u>		
Time of bud break	Medium	Early
Flowers per bud	8	6
<u>Calyx:</u>		
Diameter at anthesis (cm)	0.66	0.658
Lobe count	5	5
Color	RHS 138B (medium green)	RHS 145C (light yellow-green)
<u>Corolla:</u>		
Petals, general	Fused into a corolla with 5 lobes	Fused into a corolla with 5 lobes
Length (cm)	1.042	1.014
Diameter (cm)	0.624	0.886
Aperature diameter (cm)	0.416	0.334
Mature color	RHS 157B (white)	RHS 155A (white)
<u>Flower:</u>		
Type	Perfect hypogynous (inferior ovary); stamens attached at base of fused corolla tube	Perfect hypogynous (inferior ovary); stamens attached at base of fused corolla tube
Shape	Urceolate	Urceolate
Number of flowers per cluster	Eight	Six
Fragrance	Absent to faint	Very faint
Size	Medium	Medium
50% anthesis (full bloom)	March 15 th	
1% bloom	Medium	Early
<u>Peduncle:</u>		
Length	0.27 cm	0.13 cm
Color	RHS N144D (Yellow-green)	RHS 144A (Dark yellow-green)
<u>Pedicel:</u>		
Color	RHS N144D (light yellow-green)	RHS 144D (light yellow-green)
Length (cm)	0.612	0.478

Table 3 shows plant characteristics of the new variety compared with plant characteristics of blueberry plant 'O'Neal' (unpatented). Table 3 includes leaf and shoot characteristics.

TABLE 3

Characteristic	'DrisBlueTwo'	'O'Neal'
<u>Leaves:</u>		
Arrangement	Alternate	Alternate
Shape	Broadly elliptic to slightly ovate	Simple and broadly elliptic to slightly ovate
Apex	Broadly acute to acuminate	Broadly acute
Base	Broadly acute	Broadly acute to slightly cuneate
Margin	Serrulate	Entire
Pubescence	Absent-glabrous	Absent-glabrous
Length (cm)	0.658	0.662
Width (cm)	3.92	3.44
Length/width ratio	0.2	1.9
Color, upper surface	RHS 137A (green)	RHS 137A (green)
Color, lower surface	RHS N138B (green)	RHS 138B (green)
Venation	Reticulate	Reticulate
<u>Petiole:</u>		
Length (cm)	0.42	0.40
Color	RHS N144D (yellow-green)	RHS N144D (yellow-green)
<u>Shoots:</u>		
Internode length (cm)	0.862	1.634

Table 4 shows plant characteristics of the new variety compared with plant characteristics of blueberry plant 'O'Neal' (unpatented). Table 4 includes berry, skin, peduncle and seed characteristics.

TABLE 4

Characteristic	'DrisBlueTwo'	'O'Neal'
<u>Berry:</u>		
Shape	Nearly spherical	Slightly oblate sphere
Size	Medium-large	Medium
Weight (g)	1.5	1.39
Height (cm, pedicel scar to calyx)	1.564	1.284
Diameter (cm at widest point)	1.796	1.508
Height/diameter ratio	0.87	0.85
Firmness	Firm	Medium
Sweetness	Medium	Strong
Acidity	Medium	Mild
Season/timing (25% ripe)	Early to mid-season	Early season
Season/timing (50% ripe)	June 8 th	June 14 th
Pedicel scar diameter (cm)	0.168	0.16
<u>Skin:</u>		
Bloom deposition	Weak	Medium
Mature color with bloom	RHS 102C (blue)	RHS 98C (violet-blue)
Mature color without bloom	RHS 103A (blue)	RHS 103A (blue)
Immature color with bloom	RHS 191A (green)	RHS 143D (light green)
<u>Flesh:</u>		
Color	RHS 193C (green)	RHS 157A (green-white)
<u>Seed:</u>		
Abundance	19 per fruit	27 per fruit
Color	RHS 164A (orange-brown)	RHS 165B (greyed-orange)
Length (cm)	0.170	0.200
Width (cm)	0.130	0.112
Length/width ratio	1.31	1.79

Table 5 shows plant characteristics of the new variety compared with plant characteristics of blueberry plant 'O'Neal' (unpatented). Table 5 includes the reproductive organs.

TABLE 5

Characteristic	'DrisBlueTwo'	'O'Neal'
<u>Reproductive Organs:</u>		
Ovary color	RHS 122A (blue-green)	RHS 133C (green)
Pollen color	RHS 11C (yellow)	RHS 8D (light-yellow)
Pollen abundance	Sparse	Sparse
Anther length	0.46 cm	0.488 cm
Anther color	RHS N167A (greyed-orange)	RHS N170A (greyed-orange)
Style length, including stigma (cm)	0.928 cm	0.810 cm

Resistance to diseases and insects: Disease resistance is typical of blueberry plants.

COMPARISON WITH PARENTAL VARIETIES

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When 'DrisBlueTwo' is compared with the female parent 'Magnolia' (unpatented), 'DrisBlueTwo' has medium-large berries that are nearly spherical in shape, while 'Magnolia' has small berries that are oblate in shape.

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When 'DrisBlueTwo' is compared to the male parent 'MS189' (unpatented), 'DrisBlueTwo' has medium-large berries with medium sweetness, while 'MS189' has medium-sized berries with mild flavor.

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I claim:

1. A new and distinct cultivar of blueberry plant as described and shown herein.

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FIG. 1

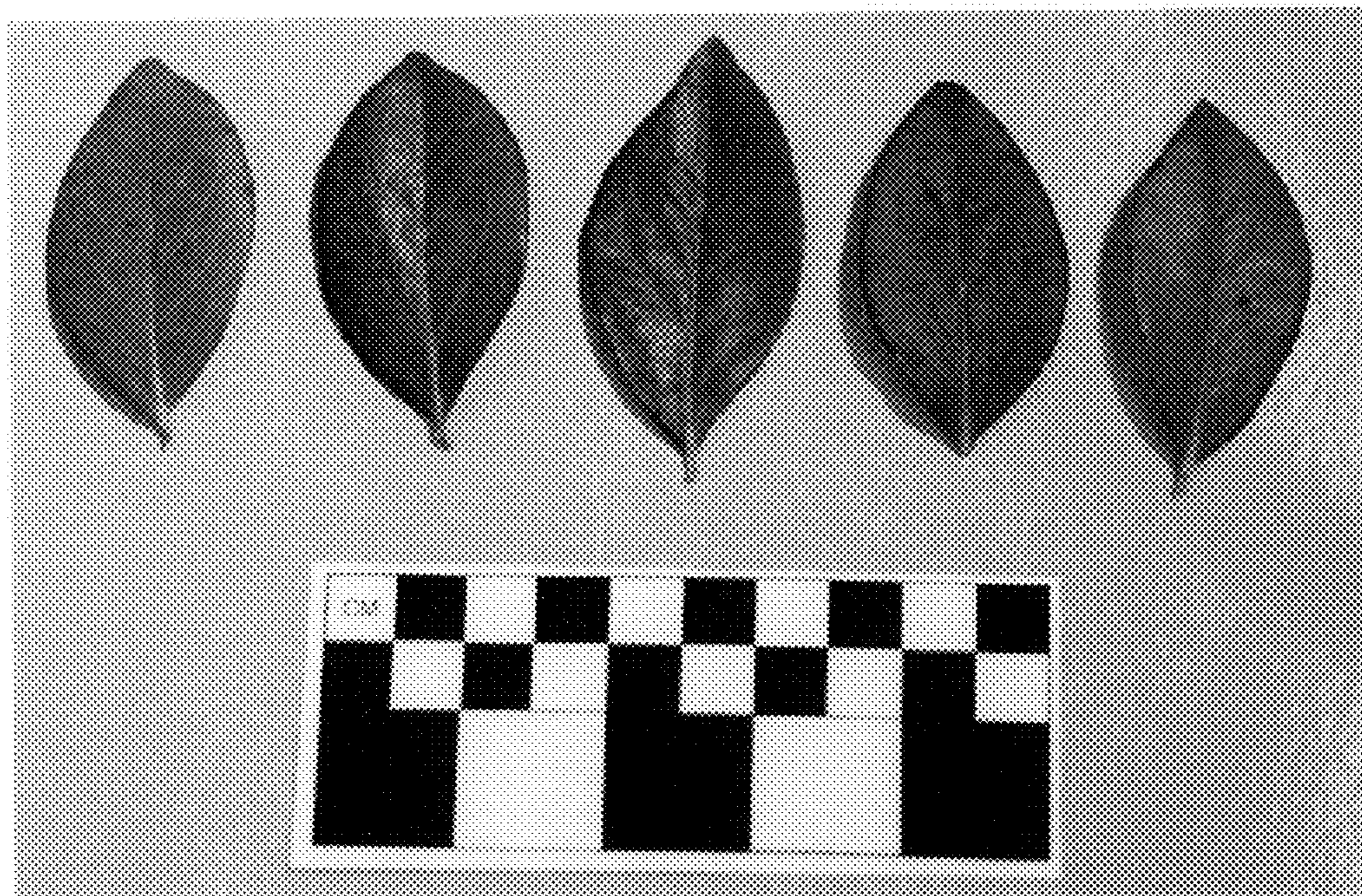


FIG. 2



FIG. 3

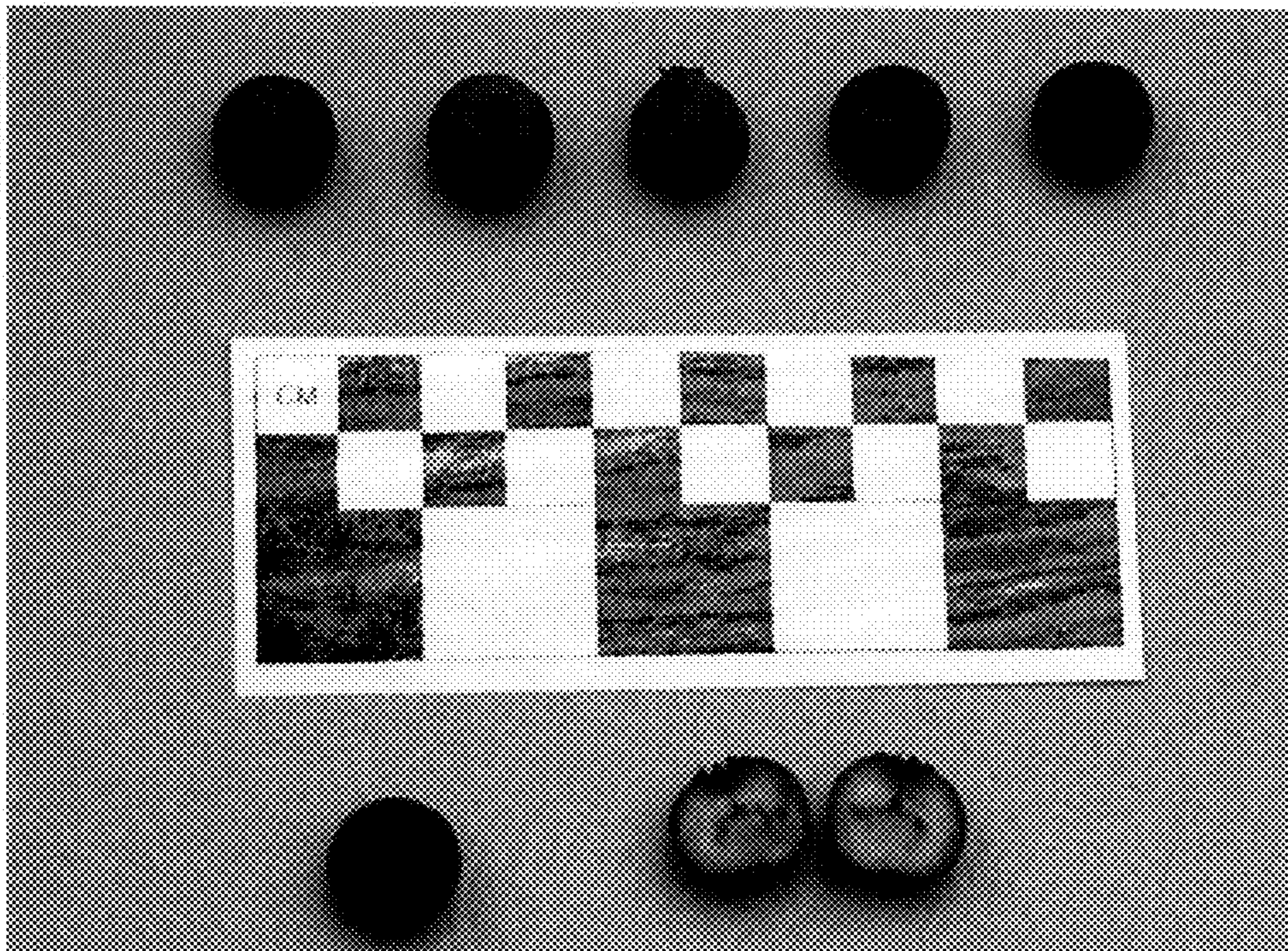


FIG. 4