

[54] DISTINCT VARIETY OF ORANGE NAMED
BARNFIELD LATE NAVEL
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Wentworth, Australia
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[57] ABSTRACT
A new cultivar of Naval Orange plant is characterized
by its very late maturation and very late hanging.

3 Drawing Sheets

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The present invention comprises a new and distinct
variety of orange tree known by the name "Barnfield
Late Navel".
The new variety was discovered growing among
trees of the parent variety in an orchard in Ellerslie via
Wentworth, New South Wales, Australia.
The parent is the well known "Washington Navel"
variety.
The new variety was asexually reproduced at Ellers-
lie via Wentworth, New South Wales, Australia, by the
present inventors. Horticultural examination of a subse-
quent of propagation has clearly demonstrated the com-
bination of characteristics as herein disclosed for Barn-
field Late Navel are firmly fixed and are retained
through successive generations of asexual reproduction.
Barnfield Late Navel has not been observed under all
possible environmental conditions. The prototype may
vary significantly with variations in environment such
as soil type and climate.
The following observations, measurements and com-
parisons described plants grown in Ellerslie via Went-
worth, New South Wales, Australia.
The following traits have been repeatedly observed
and are determined to be basic characteristics of Barn-
field Late Navel, which in combination distinguish
Barnfield Late Navel as a new and distinct variety.
(1) A very characteristic late maturation.
(2) Very late hanging of fruit with the fruit retaining
excellent internal and external condition.
(3) Naval orange characteristics such as seedlessness.
The following is a description of the Late Barnfield
orange.

THE PLANT

Tree: Growing on *Poncirus trifoliata* rootstock. Medium
vigor, dense, spreading.
Leaves: Medium large (80 to 100 mm×35 to 50 mm),
variable, lanceolate to elliptical; apex variable, mainly
acute but varying from acuminate to obtuse; base
narrowed; edges entire to obscurely crenate, mar-
ginal oil cells few; venation distinct; petioles winged;
mature leaves dull, dark on upper surface, pale to
light green on lower surface; texture crumpled to
smooth.
Fruit: Large, globose to slightly oblong; base smooth,
rounded; apex slightly depressed, sometimes slightly
furrowed and broadly nipped with a normally open
naval varying from small to large size; occasional
seed; average diameter 7.5–9.5 cm; average weight
ranges from 220 g in October to 356 g in January rind

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smooth to grained, medium thickness (average 5.2
mm); rind color changes from orange to deep orange
up to December, to pale yellow-orange, with tinges
of green by April; rind oil cells medium, slightly
depressed, colored; interior segments usually 9 to 11;
segment membranes thick but tender; pulp vesicles
large-medium, long; very juicy, evenly distributed in
sections; flavor rich, with acid and sugar well
blended.

The accompanying photographic drawings illustrate
characteristics of the Barnfield Late Navel tree and fruit
FIG. 1 illustrates characteristics of the orange
FIG. 2 shows details of the branches and leaves
FIG. 3 shows an overall view of the tree.
Barnfield Late Navel can be compared with another
Late Navel known as the Lane Late Navel, to date the
navel with the latest hanging characteristics.
Flowering occurs at approximately the same time as
the Lane Late Navel orange.
Fruit will hang on the tree in an excellent internal and
external condition for approximately 150 days longer
than the Lane Late Navel. The Lane Late Navel hangs
rarely longer beyond November whereas the Barnfield
Late Navel hang until April. Thereby filling in a gap in
the season for Navel oranges.
The fruit maturity characteristics of the tree further
characterize the tree (Table 1)

TABLE 1

Fruit quality comparison with the standard Lane Late Navel 10 fruits per sample		
	New Variety (28/4/87)	Lane (17/2/87)
Av. individual fruit wt. (g)	332.5	264.9
Fruit diameter (mm)	90.4	79.0
Rind thickness (mm)	5.5	5.6
Brix ^o	10.7	13.0
Acid (% citric)	0.45	0.27
Sugar:acid ratio	27.3:1	48.1:1
Juice (%)	55.8	48.1
Total soluble solids (kg/tonne)	60.2	62.8

*The Lane Late Navel normally hangs on the tree in reasonable condition until
December. The latest date of sampling possible for this variety before fruit drop
occurred was 17/2/87.

I claim:
1. A new and distinct variety of Naval orange named
Barnfield Late Navel, as illustrated and described, and
particularly characterized by its late maturation, and
very late hanging of fruit.

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Figure 1

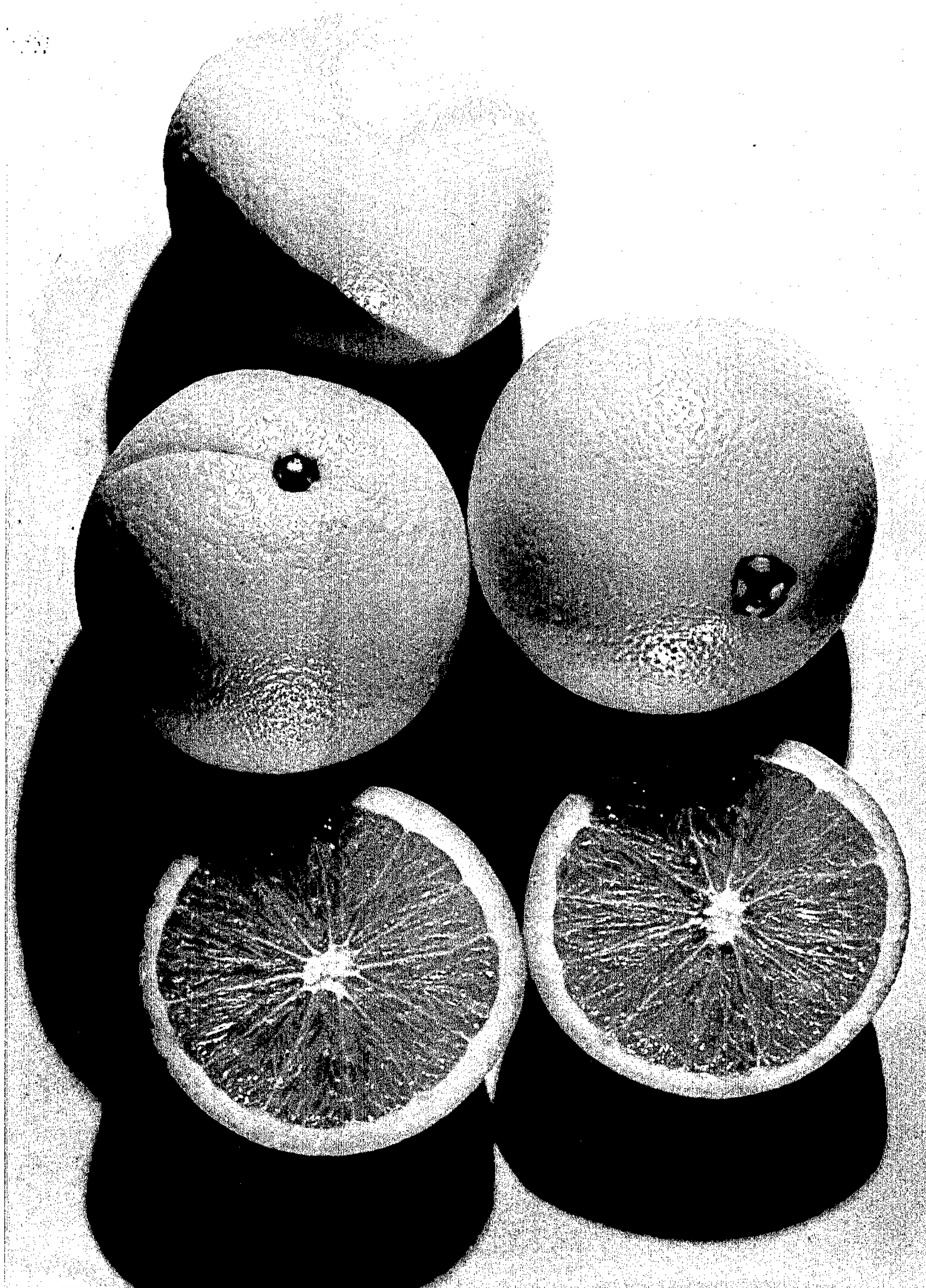


Figure 2



Figure 3