

[54] APPLE TREE— FULFORD VARIETY

[76] Inventors: Noel G. Fulford; Keith A. Fulford,
both of Southland Rd., Hastings,
New Zealand

[21] Appl. No.: 410,637

[22] Filed: Sep. 21, 1989

[51] Int. Cl.⁵ A01H 5/00

[52] U.S. Cl. Plt./34

[58] Field of Search Plt./34

[56] References Cited

U.S. PATENT DOCUMENTS

P.P. 3,637 10/1974 McKenzie Plt. 34

P.P. 6,172 5/1988 Creech Plt. 34
P.P. 6,955 8/1989 Kiddle Plt. 34

OTHER PUBLICATIONS

Good Fruit Grower, Apr. 1, 1989 edition, Unspecified
page.

Primary Examiner—Howard J. Locker
Attorney, Agent, or Firm—Waters & Morse

[57] ABSTRACT

A discovery of a new apple tree, specifically a mutation
of the Kidd or Gala variety, is disclosed. The new
apple variety is medium to dark red in color.

1 Drawing Sheet

1

SUMMARY OF THE INVENTION

The new variety in the present application is a muta-
tion of the Kidd or Gala variety (U.S. Plant Pat. No.
3,637), which we found during 1983 as a single bud
sport or limb mutation among trees growing in the
Omahuri Orchard in Hastings, New Zealand. We rec-
ognized the distinctive coloring of the fruit and other
attributes of the variety which were different from the
Kidd or Gala apple tree. Asexual reproduction of our
discovery was first performed during 1983. The new
variety has been named the Fulford variety. Asexual
reproduction has shown that the unique combinations
of characteristics and distinctive coloring remain true in
successive propagations.

BRIEF DESCRIPTION OF THE
PHOTOGRAPHIC ILLUSTRATION

The accompanying photograph displays the foliage
and fruit of a typical specimen of the present discovery.
The color representation is as reasonably close to the
live specimen as is possible in illustrations of this kind.

DETAILED DESCRIPTION OF THE PLANT

The following is a detailed description of my new
variety with color designations where appropriate. The
color terminology is in accordance with the Pantone
color system the Pantone Color Formula Guide,
747XR, 1987-1988, and all such designations are Pan-
tone color codes.

In comparison with the Gala (Kidds D-8) variety,
U.S. Plant Pat. No. 3,637, the bloom dates and fruit
harvest dates are approximately the same, although the
fruit of the present variety may be ready for picking
slightly earlier or slightly later than the Gala (Kidds
D-8), depending on the season. Testing in the Hawkes
Bay area of New Zealand, indicated a bloom date of
Oct. 15, 1989 and a harvest data of Feb. 15, 1990. The
flower color of the new variety is a darker pink in the
center than the Gala (Kidds D-8). The fruit yield is
approximately Ten Percent (10%) less than the Gala
(Kidds D-8). The keeping quality is good but is slightly
less than the Gala (Kidds D-8). The fruit of the new
variety is somewhat softer than the Gala (Kidds D-8)

2

and has lower soluble solids at the same level of matu-
rity. The new variety is an annual bearer of fruit.

As for tree characteristics, the bark is substantially
the same as the Gala (Kidds D-8) variety, but the tree
has flatter branch angles and is slightly less vigorous
than the Gala (Kidds D-8).

The color of the fruit is a substantially brighter red
than the Gala (Kidds D-8) variety, with the red color
being distributed uniformly over the fruit. The color of
the new variety is different from the Scarlet Gala vari-
ety (U.S. Plant Pat. No. 6,172) in that the Scarlet Gala
variety has a light stripe blending to a bright red blush
over a cream yellow color. The new variety is a uni-
form, bright red and has no stripe at all.

The specimens described below were tested at the
DSIR Research Orchard, Havelock North, New
Zealand.

Tree: Moderately vigorous; spreading; with predomi-
nance of bearing on spur.

Dormant one year old shoot: Medium pubescence on
upper half; medium thickness; moderate number of
lenticels; predominantly reddish brown on the sunny
side; pointed bud tips; fruit buds (on spurs) conically
shaped.

Flower: Bud color is deep rose just prior to opening; the
beginning of flowering (when 10% of the flowers
have opened) is early; the flower shape is slightly
cupped or flat when observed at the start of anther
dehiscence; pressed flat, the flowers are of medium
size with petal margins free.

Leaf: General pose of the leaf is upwards; medium in
size, 80 mm (millimeters) in length, 40 mm in width
for fully expanded leaf; the length/width ratio of
blades being medium; cross sectional shape is un-
folded; margins show both crenate and serrate inden-
tation; moderate glossiness of upper leaf surface;
moderate pubescence on lower leaf surface; petiole
length is longer than average; stipule size is moderate.

Fruit: Typically moderate in size, averaging 60 mm
(millimeters) in length and 70 mm in breadth; ellip-
soid in shape; symmetrical in cross section; little or no
ribbing with moderate crowning at the distal end; the
aperture of the eye is typically closed; medium sepal
length; the basin depth (eye end) is moderate while

the width is narrow; ribbing in the basin area is either absent or weak; the skin is smooth and is absent bloom; the skin is thick and has little tendency towards greasiness; the ground color of the skin is yellow and over color (red) is present overall; the over color is solid flush; russet appearance is slight or weak and is found typically around the stalk cavity; lenticles are small; the flesh is firm and yellowish with a fine texture; juicy with moderate to high sweetness; long and narrow "Y" shaped calyx tube; core line in cross section (median through locules) is moderately distinct with the apertures of the locules open.

Maturity.—Ripening for eating is early, approximately 10 days earlier than Cox's Orange Pippin; maturity for picking is approximately 3 days later than Cox's Orange Pippin.

Seed.—Seeds are small and brown in color when dried.

Color.—The fruit has a pleasing and fairly uniform red appearance. The red varies moderately from a medium shade (Pantone 186C, 193C, 199C and

200C) to a deeper color (Pantone 187C and 201C).

The leaf color is typical and varies somewhat. The leaf color is best typified as a dark green (Pantone 3302C, 3308C, 3435C and 350C). Lighter greens may occur on portions of the leaf or leaf edge and have been observed only as an inferior coloration (Pantone 364C).

Resistance to:

Apple black spot.—Good.

Powdery mildew.—Good to highly resistant.

Glomerella cingulate.—Susceptible.

Woolly aphid.—Good to highly resistant.

Red mite.—Good.

Leaf roller.—Good.

Stalk: Thick; moderately long; stalk cavity is deep and of medium width.

I claim:

1. A new and distinct variety of apple tree which is a mutation of the Kidd or Gala variety (U.S. Plant Pat. No. 3,637) substantially as shown and described, characterized by an overall bright red color.

* * * * *

25

30

35

40

45

50

55

60

65

