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Lim et al.

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(54) **PEACH TREE NAMED ‘MOONSU’**
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(57) **ABSTRACT**
A new and distinct variety of peach ‘*Prunus persica*’ tree
with the following combination of unique features that are
desirable in a new variety.
1. Heavy and regular production of fruit.
2. Production of very firm, white flesh fruit with good
handling and shipping quality.
3. Fruit that will stay firm on the tree 10 to 17 days after
maturity (shipping ripe).
4. Fruit with excellent flavor and eating quality.
5. Middle season maturity of white flesh fruit.
6. Fruit with a skin with pink overspread with light
yellow.
7. Vigorous half-open growth.
8. Saccharinity, flavor and aroma of the fruit are not lower
even in the rainy season.

1 Drawing Sheet

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BACKGROUND OF VARIETY

In the country of origin, Republic of Korea, the tree of this
disclosure is believed to have been derived from the Korean
commercial variety ‘Yumyeong’(unpatented), which is
selected among the crosses of Yamato-wase×Numome-wase
and within the subspecies ‘dianthiflora’ (Dipp.); and origi-
nated in Seomyun, Yunkikun, Chungnam, Republic of
Korea. The appropriate botanical classification for this tree
is believed to be ‘*Prunus persica*’. This subject tree is
believed to be exceptional in a number of characteristics and
will offer a further option to commercial growers of stone
fruits in terms of fruit having large to very large size, firm
flesh, clingstone, acidic sweeter than the fruit of ‘Yumy-
eong’, attractively colored fruit which has a comparatively
high capacity to withstand handling, shipping and storage.
The tree has the additional desirable fruit characteristics of
heavy production of fruit with an attractive round shape and
pleasant, acidic sweet taste, and which is harvested earlier
than normal harvest for fruit of extra large size, this tree
promises to be a valuable new variety to industry and
commerce which has value as a dessert variety but which
may also be used as a canner. This tree further has the
advantage of being mid to late-season in blooming so that it
is less susceptible to late frosts than other locally adapted
tree varieties. We are not aware of varieties, which offer a
similar or comparable combination of characteristics.

ORIGIN OF THE VARIETY

The new tree was selected from among several thousand
seedling from ‘Yumyeong’ variety, which had been planted
on our farm in Seomyun, Yunkikun, Chungnam, Korea. The
seedling was discovered near a specimen of the noted
apparent seed parent, which is an early season variety and
which normally ripens between July 15 to July 20, which is
90 to 100 days from the blooming days. Our attention was
drawn to this tree when we noticed that fruit was much

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sweeter by about 1 to 2°(Bx) than the fruit of the parent
‘Yumyeong’ variety, but that the saccharinity was not
changed during the rainy season on the tree, differing from
other varieties including the parent ‘Yumyeong’. Based on
these observations, we selected the variety for asexual
reproduction and commercialization.

ASEXUAL REPRODUCTION OF THE VARIETY

Asexual reproduction of the new and distinct variety was
performed by budding or grafting in our orchard located in
Seomyun, Yunkikun, Chungnam, Korea and shows that all
characteristics run true to the original tree and are estab-
lished and transmitted through succeeding propagation.

SUMMARY OF THE VARIETY

The present new and distinct variety of peach tree has
been denominated ‘Moonsu’, and the height of the fully
grown tree about 3.0 to 3.5 meters, which is almost same as
that of the tree, ‘Yumyeong’. The diameter of the new tree
is about 6 to 7 meters. This tree grows vigorously with a
half-open shape and is regular and productive bearer of extra
large, skin with pink overspread with light yellow, white
flesh, clingstone fruit with a mild, sweet acidic flavor with
excellent eating and stock quality. The fruit is further
characterized by having very firm flesh, the ability to hang
on the tree 10 to 17 days after maturity (shipping ripe),
having good handling and shipping quality, a yellow skin
grown color overspread with an attractive red blush and
ripening in the middle maturity season, approximately 30
days before ‘Yumyeong’, and approximately the same as
‘Changbang joseng’, which are established commercial vari-
eties in Korea.

DESCRIPTION OF THE PHOTOGRAPHS

FIG. 1 shows typical specimens of the fruit of the new and
distinct peach variety; and typical leaf from the tree,

‘Moonsu’. The illustrations show a bottom view of the fruit, and a fruit divided in its suture plane to reveal flesh coloration, front view thereof and a plane view of the fruit clock-wise. The photographic illustration was taken shortly after being picked (firm ripe);

FIG. 2 shows a peach tree ‘Moonsu’. The photographic illustration was taken after almost all the leaves had fallen.

The colors in the photographs are as nearly true as is reasonably possible in a color representation of this type.

DESCRIPTION OF THE VARIETY

The following is a detailed botanical description of the new and distinct variety of peach tree, its flowers, fruit and foliage as based on observations of the specimen grown in our orchard located Seomyun, Yunkikun, Chungnam, Korea, with color terminology (except those in common terms) in accordance with PANTON® Professional Color System Selector (Pantone, Inc., 1984, 1990).

Tree:

Size.—Large.

Vigor.—Vigorous. Having terminal growth of 1.5 to 2 meters per year, with the growth of the trunk terminating at the height of 3 to 3.5 meters in 3 or 4 years, in Chungnam, Korea.

Form.—Usually pruned to half open shape. The new peach tree grows 1.5 to 2 meters every year from the first to the third year, with the trunk terminating at about 3 meters height and then the trunk thickening every year, and the branches extending upwardly at an angle of 40 to 55°, growing 1.5 meters to 2 meters a year to a maximum extent of 6 to 7 meters. Almost the same branching as the parent tree ‘Yumyeong’. To obtain large fruit, about 80% pruning of the flowers are necessary.

Production.—Productive (3300 kg/10a).

Bearing.—Regular.

Density.—Medium dense.

Trunk:

Size.—Medium to stocky.

Texture.—Smooth.

Color.—Brown (18-1124) to (18-1222).

Branches:

Size.—Medium.

Texture.—Varies from smooth to medium rough with maturity.

Lenticels.—Medium size. Medium number.

Color.—Brown (18-1031) to (18-1130) having small parts with light green (16-6329) to (16-6339).

Leaves:

Size.—Medium to large. The shape and size are almost the same as those of ‘Yumyeong’ variety.

Average length.—15 to 16.5 cm.

Average width.—3.2 to 3.7 cm.

Form.—Lanceolate-pointed.

Texture.—Smooth.

Thickness.—Medium.

Margin.—Crenate.

Petiole.—Medium length. Medium thickness.

Glands.—Reniform. Number varies from 0 to 5. Average number 2. Located on base of leaf blade and upper portion of petiole.

Color.—Upper surface green to dark green (18-01117) to (18-0322). Lower surface dull green to grayish green (17-6319) to (17-0119).

Flower buds:

Size.—Medium.

Form.—Plump.

Length.—Medium.

Pubescence.—Pubescent.

Flowers:

Size.—Medium — non-showy.

Blooming period.—Apr. 18–22, 1998 which is the same flowering period as the ‘Yumyeong’ peach tree. The tree is self-fertile and so it does not require artificial pollination.

Color.—Pink.

Pollen.—Abundant.

Number of petals.—5.

Fruit:

Maturity when described.—Firm ripe.

Date of first picking.—Jul. 15, 1998.

Date of last picking.—Jul. 20, 1998.

Size.—Extra large. Average diameter axially 8.05 to 12.5 cm. Average transversely in suture plane 8.0 to 11.5 cm.

Form.—Globose slightly tip at apex and slightly flattened on stem end. The fruit is exceptionally symmetrical.

Suture.—Shallow but pronounced, extends from base to apex.

Ventral surface.—Nearly rounded, very slightly lipped.

Apex.—Varies from rounded to slight pistil point.

Base.—Retuse.

Cavity.—Rounded to slightly elongated in suture plane. Average depth 1.5 cm. Average breadth 2.0 cm.

Acidity.—Slight.

Average saccharinity.—11.5–14° Bx.

Skin:

Thickness.—Medium.

Texture.—Tenacious to flesh.

Tendency to crack.—None

Down.—Moderate amount, short to very short in length.

Color.—Red (17-1654) to (17-1562).

Flesh:

Texture.—Very firm.

Ripens.—Evenly.

Fibers.—Small, tender.

Juice.—Moderate.

Flavor.—Excellent, mild, acidic sweet.

Aroma.—Moderate.

Eating quality.—Excellent.

Amygdalin.—Undetected.

Color.—White (no Pantone number) spread with small amount of red (17-2036). Sacchrinity, flavor and aroma are not lowered even in the rainy season

Stone:

Type.—Clingstone.

Size.—Large. Average length 2.7 cm. Average width 2.6 cm. Average thickness 1.7 cm.

Form.—Ovoid.

Base.—Mostly straight some rounded.

Apex.—Acuminate.

Sides.—Equal.

Surface.—Irregularly furrowed toward apex, ridges usually rounded, pitted toward base.

Tendency to split.—None.

Color.—Brown to reddish brown (18-1540) to (19-1540).

Use: The fruit of the present new variety is well suited for novelty, processing and canning, as well as for use as a dessert peach.

Market.—Local and long distance.

Keeping quality: Very good.

Shipping quality: Very good.

The new and distinct variety of peach tree, its foliage and fruit described above may vary in slight detail due to variations in climate, soil conditions and cultural practices under which the variety may be grown. The botanical description above is that of the variety grown under the

ecological conditions prevailing near Seomyun, Yunkikun, Chungnam, Korea.

We claim:

1. A new and distinct variety of peach tree, substantially as illustrated and described, characterized in that the tree is large, grows vigorously with a half open shape and is a regular and productive bearer of large, early season maturing, white flesh, clingstone fruit with excellent flavor and eating quality; the fruit is further characterized in that it has very firm flesh, good handling and shipping quality and has a skin with pink overspread with light yellow.

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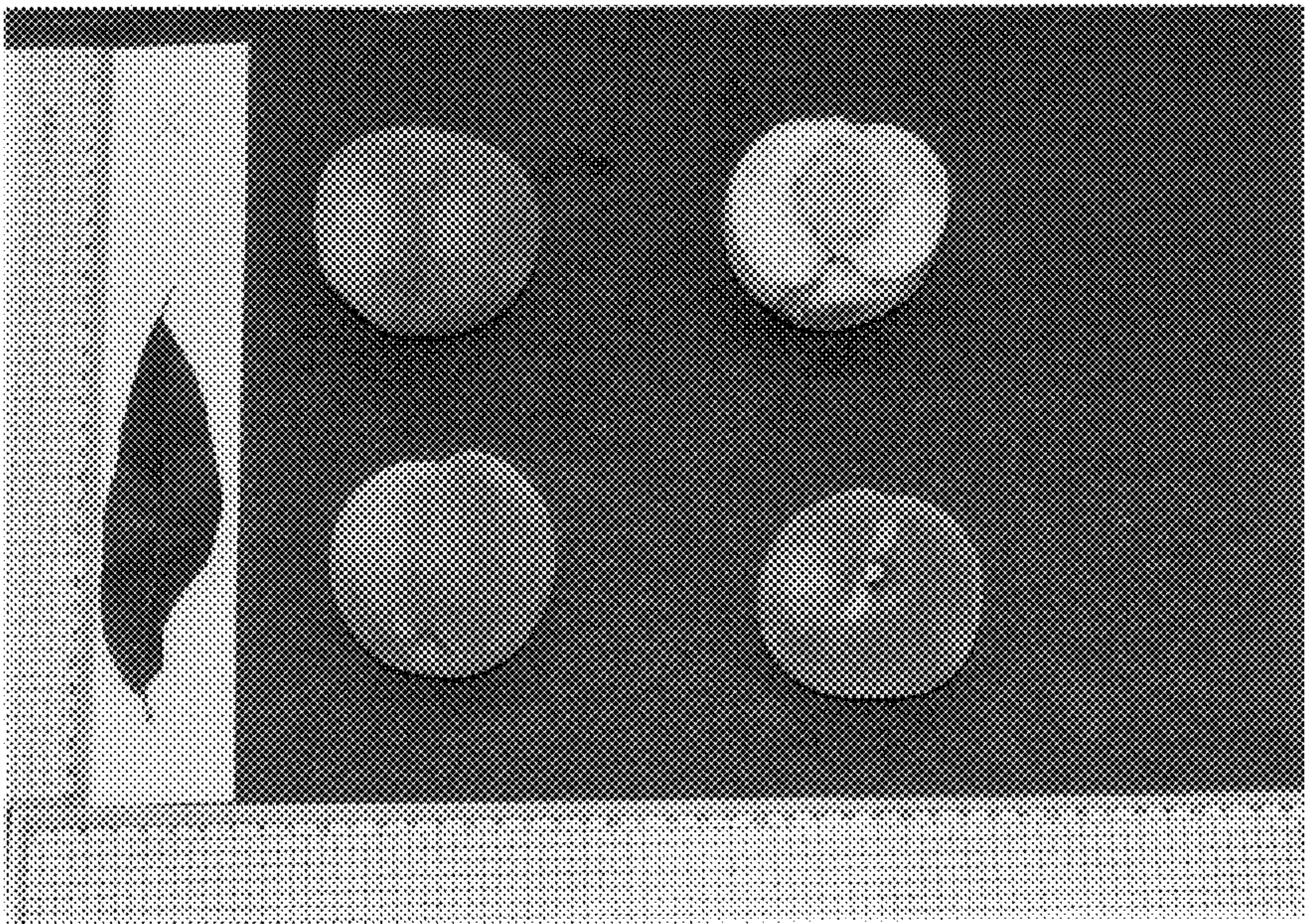


Fig. 1

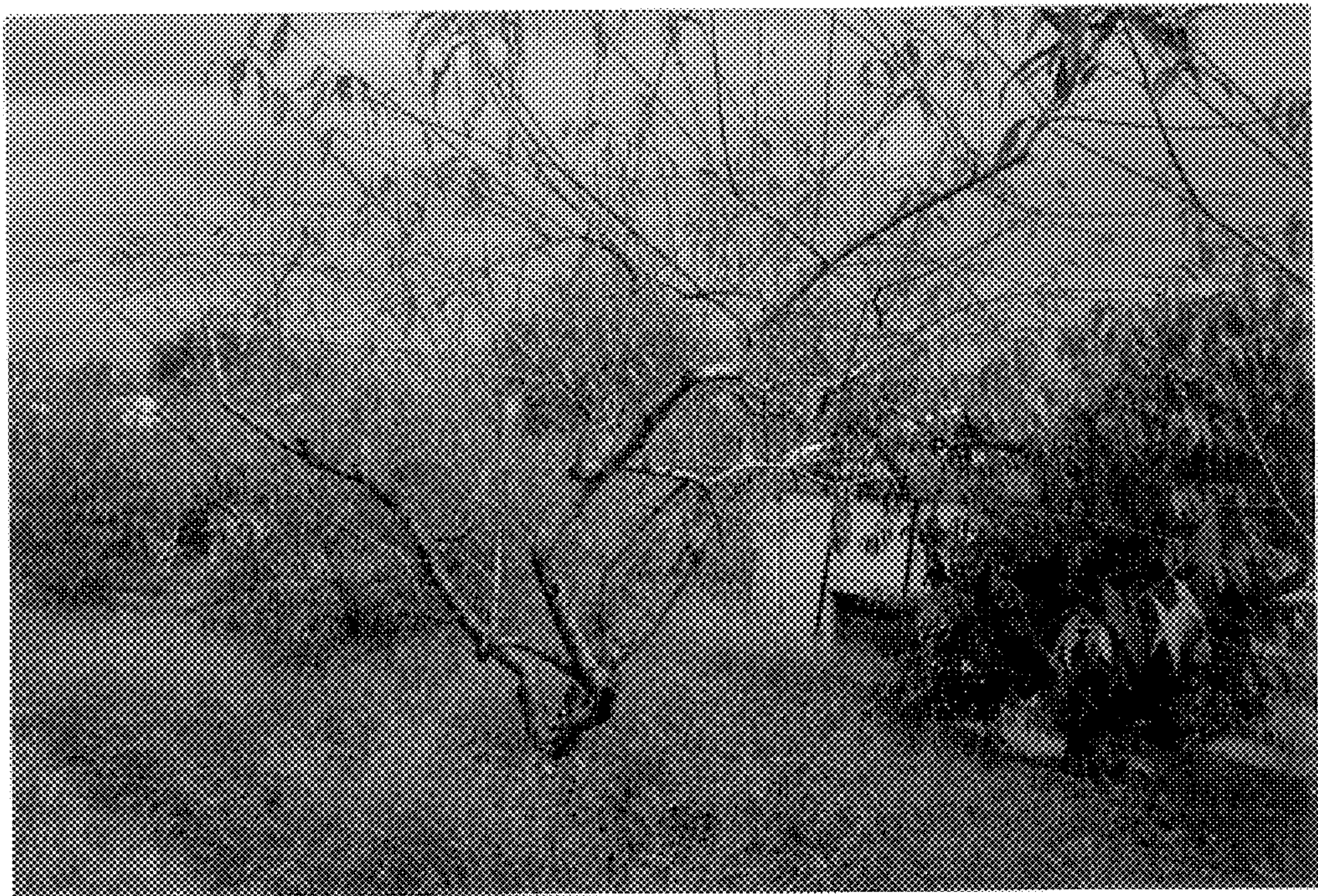


Fig. 2