

[54] CHRYSANTHEMUM PLANT NAMED
CHANTAL
[75] Inventor: Cornelis P. VandenBerg, Salinas,
Calif.
[73] Assignee: Yoder Brothers, Inc., Barberton,
Ohio
[21] Appl. No.: 481,067
[22] Filed: Feb. 16, 1990
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[52] U.S. Cl. Plt./74
[58] Field of Search Plt./74

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Jeffery, Schwaab, Mack, Blumenthal & Evans

[57] ABSTRACT
A Chrysanthemum plant named Chantal particularly
characterized by its flat capitulum form; daisy capitu-
lum type; white ray floret color; diameter across face of
capitulum of 25 to 28 mm when fully opened when
grown as a pinched spray pot mum; very floriferous
with excellent display of many small flowers; photope-
riodic flowering response to short days of 45–50 days;
plant height when grown as a pinched pot mum in a 15
cm pot of 18 to 25 cm; small, dark green foliage; spread-
ing and very prolific branching pattern; and excellent
tolerance to high temperatures for bud initiation and
flower development.

3 Drawing Sheets

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The present invention comprises a new and distinct
cultivar of Chrysanthemum, botanically known as *Den-
dranthera grandiflora*, and referred to by the cultivar
name Chantal.
Chantal, identified as 86-671001, was originated by the
inventor Cornelis P. VandenBerg from a cross made in
a controlled breeding program in Salinas, Calif., in
1986.
The female parent of Chantal was an unnamed seed-
ling identified as 83-538021, and described as a white
daisy spray pot mum. The male parent of Chantal was
an unnamed seedling identified as 83-S01002, and de-
scribed as a white daisy spray pot mum with many very
small flowers.
Chantal was discovered and selected as one flower-
ing plant within the progeny of the stated cross by
Cornelis P. VandenBerg in January 19787, in a con-
trolled environment in Salinas, Calif.
The first act of asexual reproduction of Chantal was
accomplished when vegetative cuttings were taken
from the initial selection in March 1987 in a controlled
environment in Salinas, Calif., by technicians working
under the supervision of Cornelis P. VandenBerg.
Horticultural examination of controlled flowerings of
successive plantings has shown that the unique combi-
nation of characteristics as herein disclosed for Chantal
are firmly fixed and retained through successive genera-
tions of asexual reproduction.
Chantal has not been observed under all possible
environmental conditions. The phenotype may vary
significantly with variations in environment such as
temperature, light intensity and daylength.
The following observations, measurements and com-
parisons describe plants grown in Salinas, Calif., and
Leamington, Canada, under greenhouse conditions
which approximate those generally used in commercial
greenhouse practice.
The high temperature tolerance was determined in a
controlled environment in Salinas, Calif., where tem-
peratures were maintained at 35 degrees Celsius during
the day and 24 degrees Celsius during the night for the
duration of the crop.
The following traits have been repeatedly observed
and are determined to be basic characteristics of Chan-

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tal, which, in combination, distinguish this Chrysanthemum as a new and distinct cultivar:
1. Flat capitulum form.
2. Daisy capitulum type.
3. White ray floret color.
4. Diameter across face of capitulum of 25 to 28 mm
when fully opened, when grown as a pinched spray pot
mum.
5. Very floriferous, with an excellent display of many
small flowers.
6. Photoperiodic flowering response to short days of
45 to 50 days when flowered in Salinas, Calif., under
normal greenhouse temperatures (15 degrees Celsius
minimum night, 25 degrees Celsius maximum day).
7. Plant height of 18 to 15 cm from soil line when
grown as a pinched pot mum with four cuttings in a 15
cm pot under normal greenhouse conditions in Salinas,
Calif., with 14 to 15 long days after sticking unrooted
cuttings prior to start of short days and 0 to 1 applica-
tions of 2500 ppm B-9 SP.
8. Small, dark green foliage.
9. Branching pattern is spreading and very prolific,
each plant having 6 to 8 laterals after pinch.
10. Excellent tolerance to high temperatures for bud
initiation and flower development.
The accompanying photographic drawings show
typical inflorescence and leaf characteristics of Chantal,
with the colors being as nearly true as possible with
illustrations of this type.
Sheet 1 is a color photograph of Chantal grown as a
pinched spray pot mum grown in a 10 cm pot.
Sheet 2 is a black and white photograph of three
views of the inflorescence of Chantal.
Sheet 3 is a black and white photograph showing the
upper and under sides of the leaves of Chantal at three
stages of development (mature, intermediate and imma-
ture).
No commercial cultivar known to the invention can
be compared with Chantal. The combination of white
flower color, very high number of small flowers, small
dark green foliage and spreading and very prolific
branching pattern is unique, and is not represented in
any commercial cultivar known to the inventor.

Plant 7,516

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In the following description color references are made to The Royal Horticultural Society Colour Chart. The clear white ray floret color of Chantal is not represented in the R.H.S. Colour Chart. The color values were determined on plant material grown as a pinched spray pot mum in Salinas, Calif., on Aug. 28, 1989.

Classification:

Botanical.—*Dendranthema grandiflora* cv Chantal.
Commercial.—Daisy spray pot mum.

Inflorescence

A. Capitulum:

Form.—Flat.

Type.—Daisy.

Diameter across face.—From 25 to 28 mm when fully opened.

B. Corolla of Ray Florets:

Color (generall tonality from a distance of three meters)—White.

Color (upper surface)—White.

Color (under surface)—White.

Shape.—Straight, oblong, concave.

C. Corolla of Disc Florets:

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Color (mature)—Closest to 12A.

Color (immature)—Closest to 7A.

D. Reproductive Organs:

Androecium.—Present on disc florets only; moderate pollen.

Gynoecium.—Present on both ray and disc florets.

PLANT

A. General Appearance:

Height.—Plant height of 18 to 25 cm from soil line when grown as a pinched pot mum with four cuttings in a 15 cm pot under normal greenhouse conditions in Salinas, Calif., with 14 to 15 long days after sticking unrooted cuttings prior to start of short days and 0 to 1 applications of 2500 ppm B-9 SP.

B. Foliage:

Color (upper surface)—147A.

*Color (under surface).*13 147B.

Shape.—See photograph.

I claim:

1. A new and distinct Chrysanthemum plant named Chantal, as described and illustrated.

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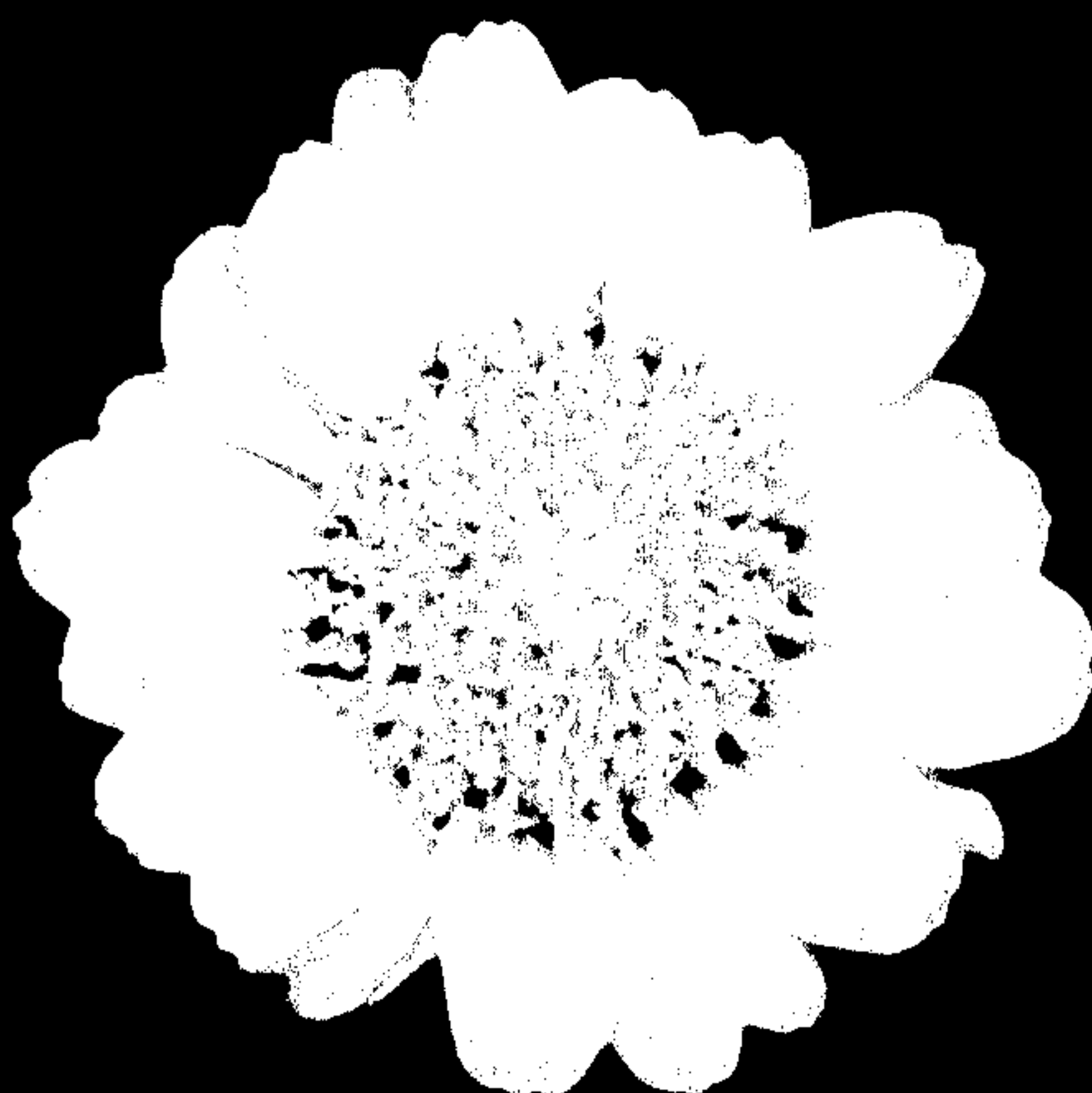
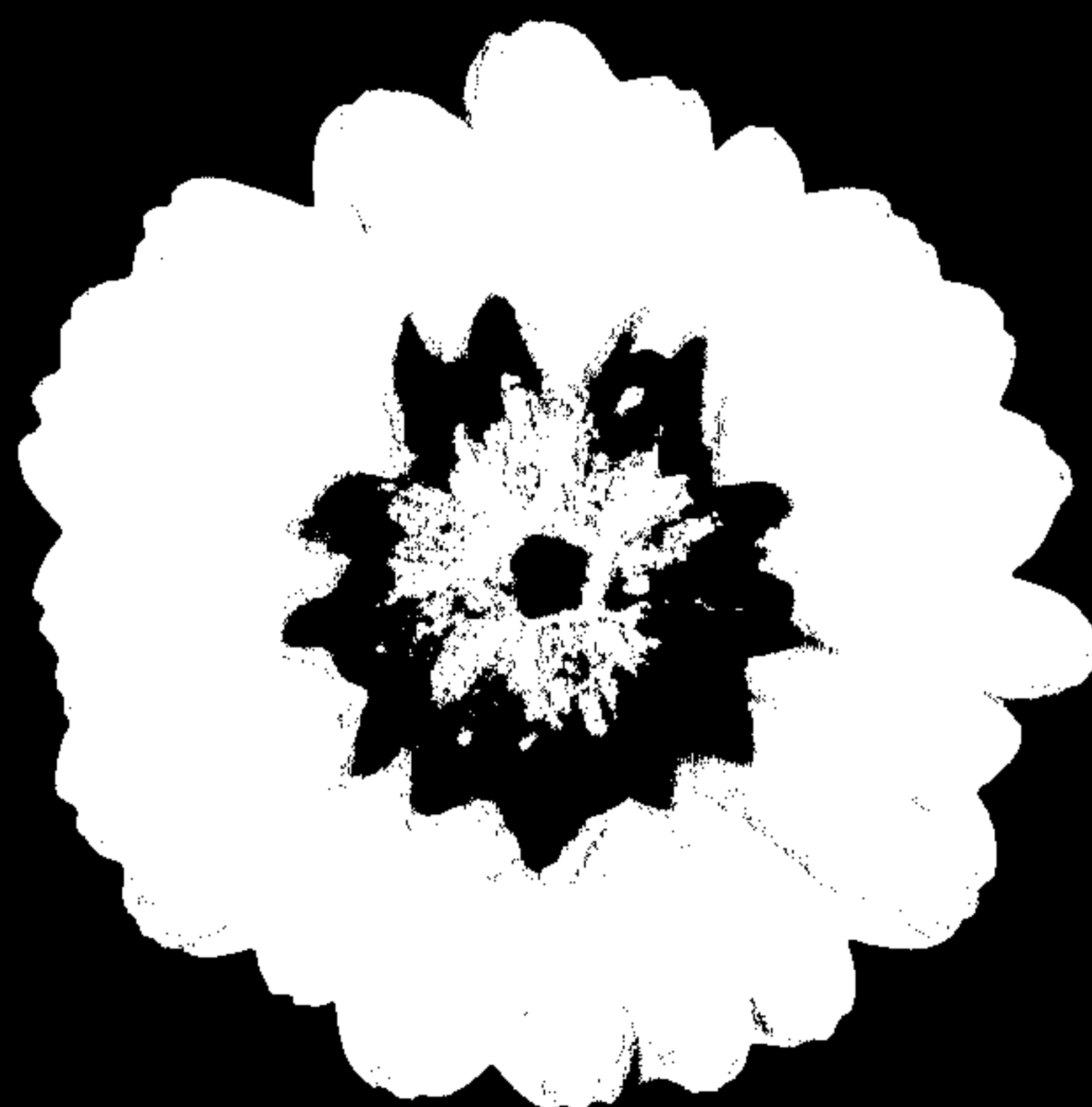
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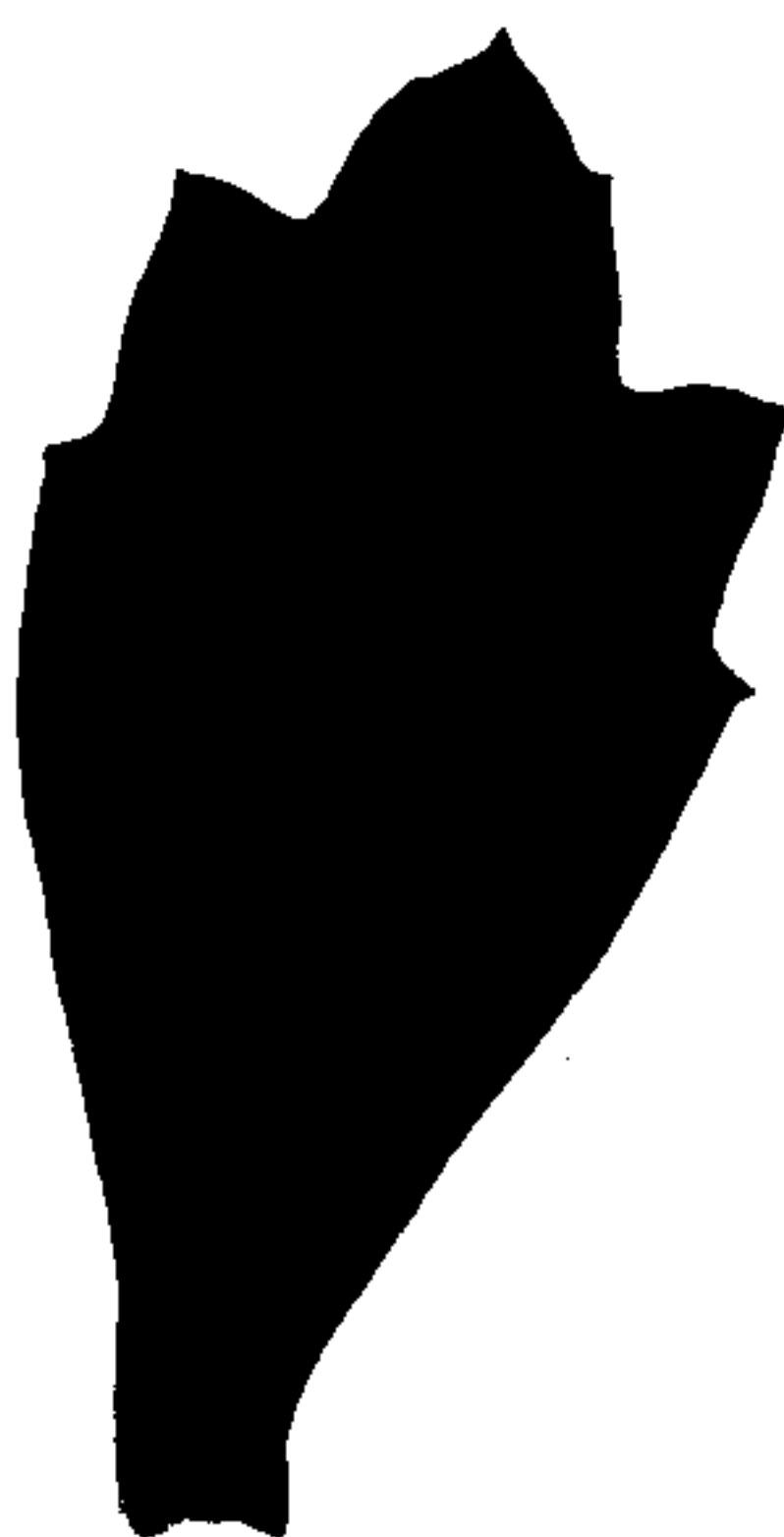
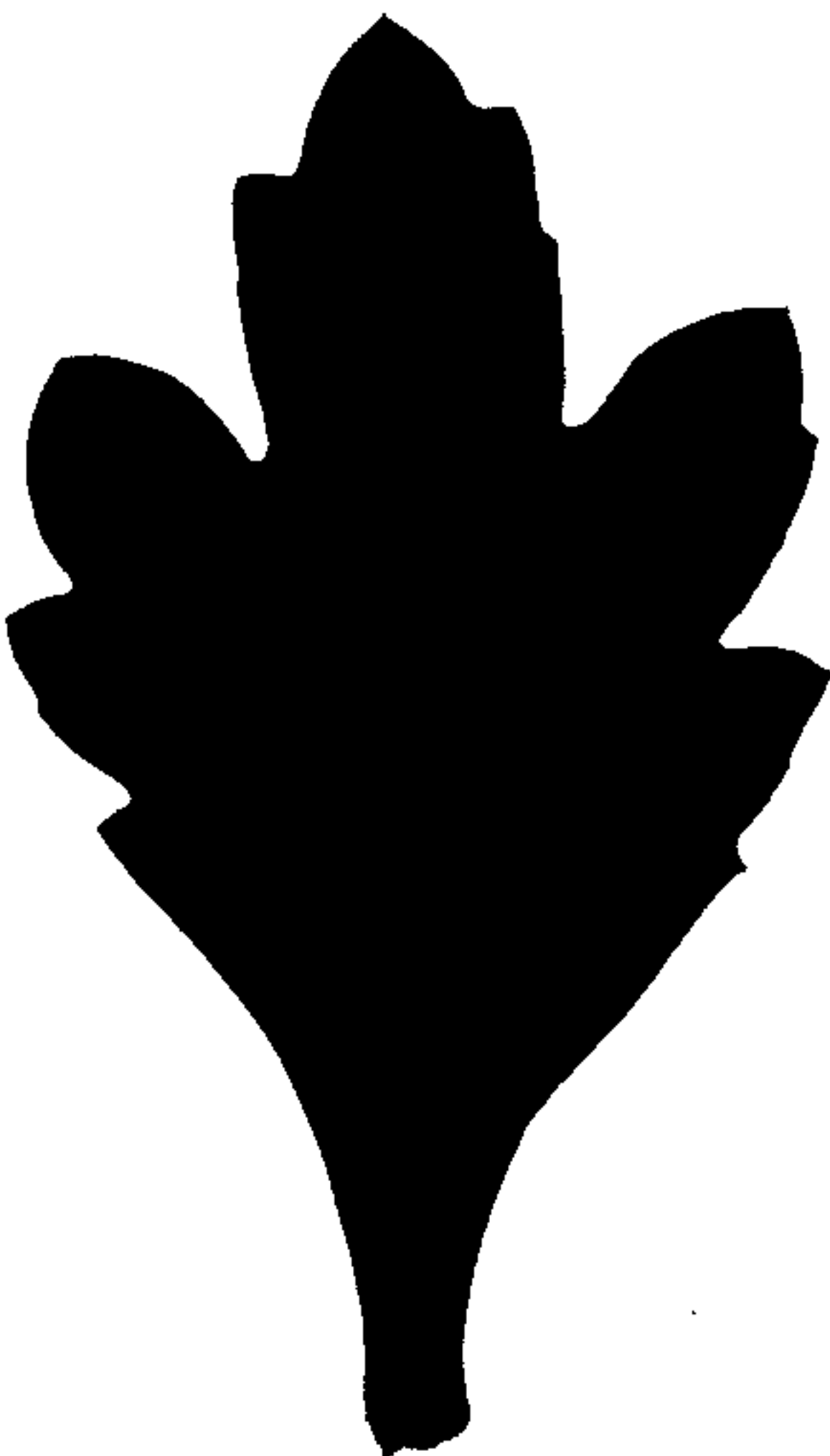
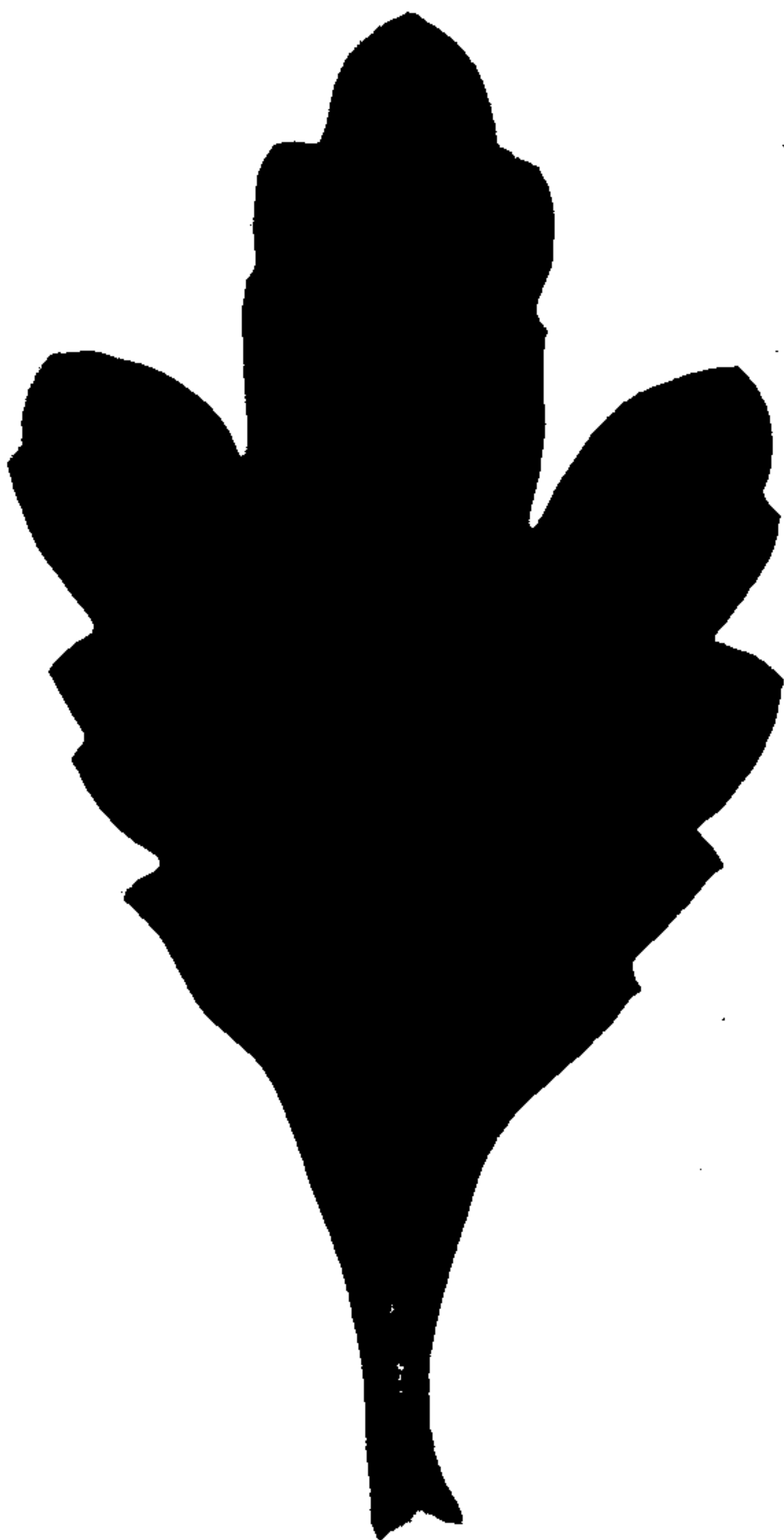
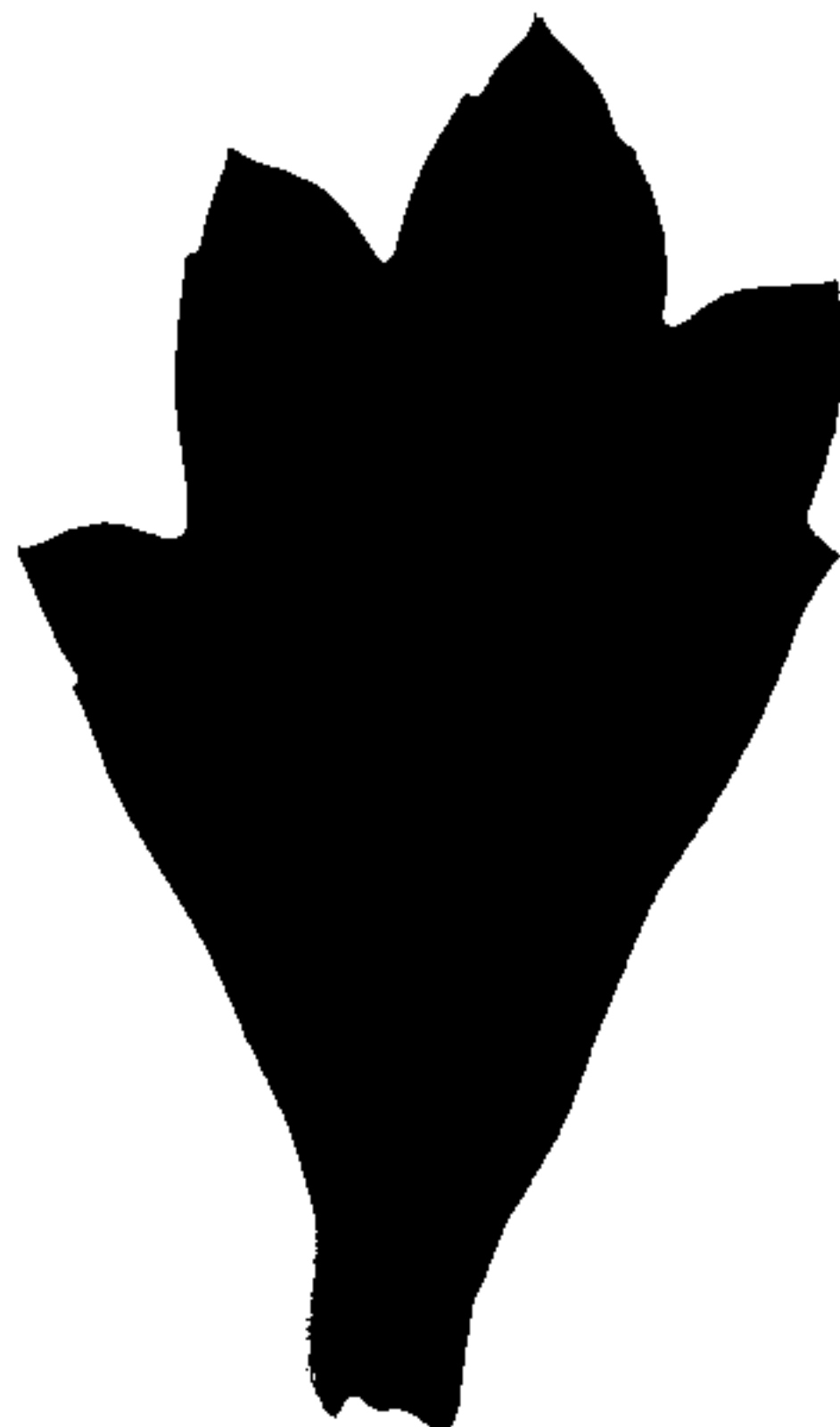
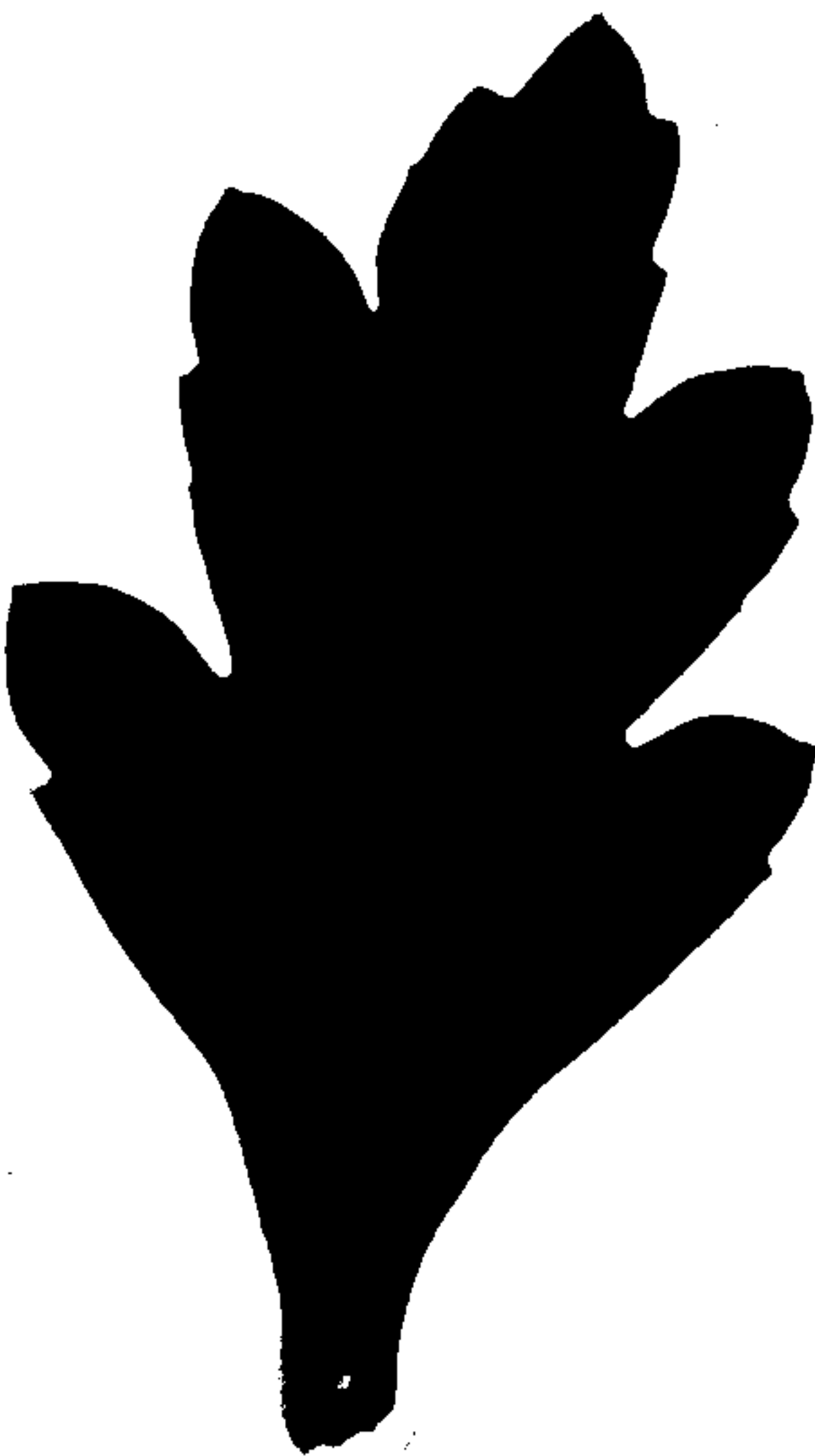
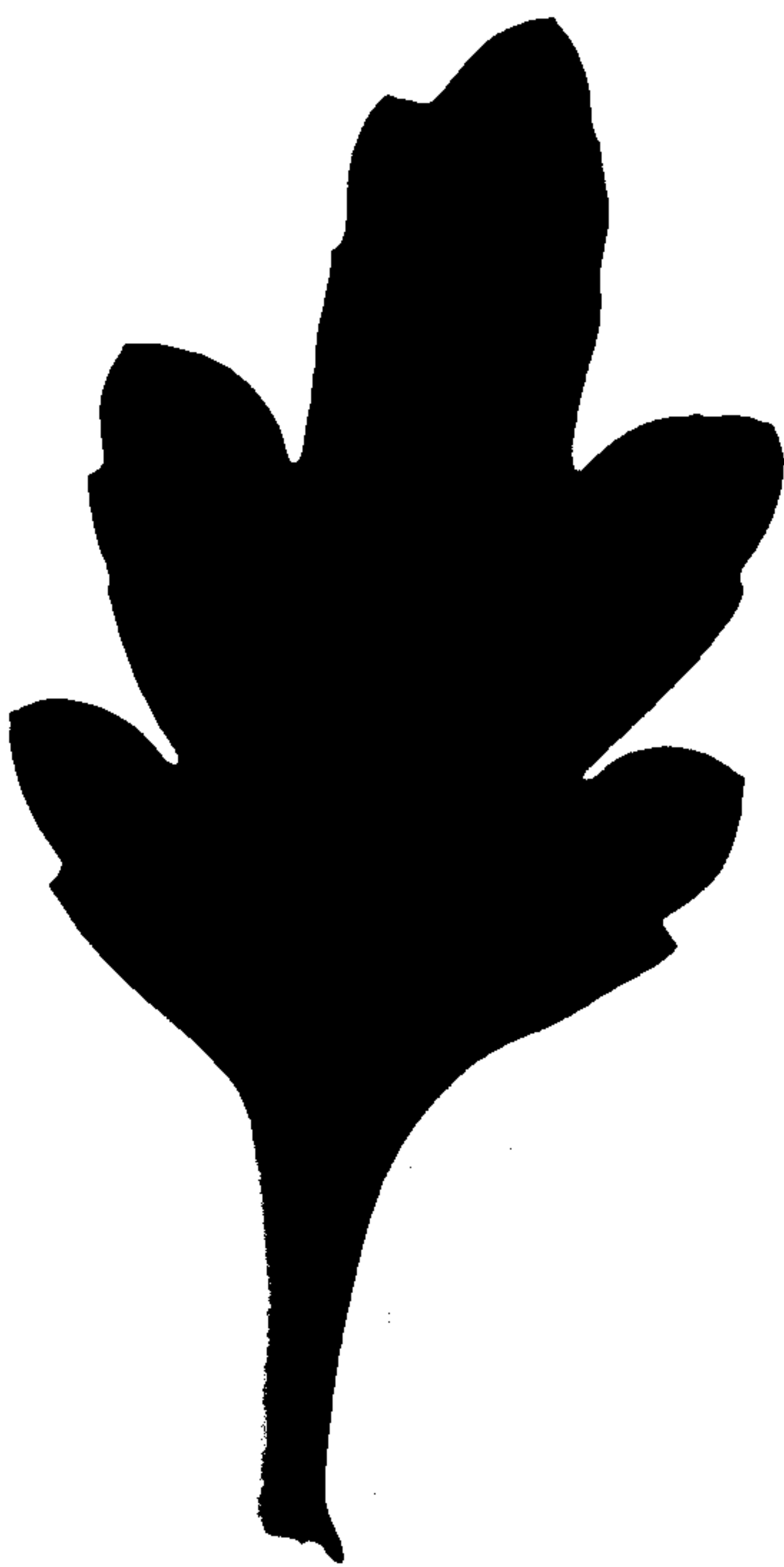
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : PP 7,516
DATED : May 7, 1991
INVENTOR(S) : Cornelis P. VANDEMBERG

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

Column 1, line 17: Change "19737" to --1987--.
Column 2, line 15: Change "13 to 15" to --13 to 25--.
Column 2, line 39: Change "invention" to --inventor--.
Column 4, line 19: Change "13 147B" to --147B--.

Signed and Sealed this
Fifth Day of July, 1994



BRUCE LEHMAN

Commissioner of Patents and Trademarks

Attest:

Attesting Officer