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(12) **United States Plant Patent**
Flagg-Miller

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(54) **GARLIC PLANT DENOMINATED ‘MMG1’**

(50) Latin Name: *Allium sativum* L
Varietal Denomination: **MMG1**

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patent is extended or adjusted under 35
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A01H 5/00 (2018.01)
A01H 6/04 (2018.01)

(52) **U.S. Cl.**
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CPC *A01H 6/04* (2018.05)

(58) **Field of Classification Search**

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CPC ... A01H 5/06; A01H 5/12; A01H 5/02; A01H
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See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

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Primary Examiner — June Hwu

(57) **ABSTRACT**

The unique garlic plant variety denominated ‘MMG1’ is
provided. The variety is characterized by larger bulbs, yields
5 large spicy hot bulbs per plant, 7.5 to 8 foot in overall plant
height, 12 to 18-month shelf life, 9 months from planting to
harvest of the plant, high yield of bulbs, disease-free veg-
etation, presence very large spicy hot edible flower scape,
and vigorous foliage that develops unusually larger bulbs
and scapes.

6 Drawing Sheets

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Latin name and variety denomination: The present dis-
closure relates to a new and distinct variety of *Allium sativum*
L, which is hereby denominated ‘MMG1’.

BACKGROUND

The present invention relates to a new and distinct cultivar
of garlic plant, botanically known as. and hereinafter
referred to by the cultivar name ‘MMG1’.

‘MMG1’ was originally found in a cultivated state and
was asexually propagated and selected with the objective of
identifying individuals having early harvesting capabilities,
large clove arrangements, and healthy plant material.
‘MMG1’ has been asexually reproduced in Turner, Oreg.,
via clove-propagated asexual reproduction and cultivation.
The clones so produced have been observed through several
growing seasons and the clones are identical to the parent
plant in all characteristics.

Characterized by larger bulbs, yields 5 large spicy hot
bulbs per plant, 7.5 to 8 foot in overall plant height, 12 to 18
month shelf life, 9 month from planting to harvest of the
plant, disease-free vegetation, presence very large spicy hot
edible flower scape, and vigorous foliage that develops
unusually larger bulbs and scapes.

The following traits have been repeatedly observed and
are determined to be basic characteristics of ‘MMG1’ which
in combination distinguish this garlic as a new and distinct
cultivar:

9 month harvesting of the plant;
Disease-free vegetation;

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Presence of large, hot, edible or ornamental flower scape;
and

Vigorous foliage that develops quicker and has more volume
than comparative cultivars.

5 Cloves are hot and spicy to the taste and are medicinal.

‘MMG1’ has not been observed under all possible envi-
ronmental conditions. The phenotype of the new cultivar
may vary significantly with variations in environment such
as day length, temperature, soil condition, humidity, fertil-
ization and date of planting without any change in genotype
of the cultivar. The following observations, measurements,
and comparisons describe plants grown in the Willamette
Valley, Oreg. under conditions that approximate those gen-
erally used in commercial practice. The age of the plants
described is 9 months after planting.

Of the many commercial cultivars known to the present
inventor, the most similar in comparison to ‘MMG1’ is
‘Elephant Garlic’ (never patented). In comparison to
‘Elephant Garlic’, ‘MMG1’ has similar bulb and clove
colors but demonstrates significant differences in the earli-
ness of harvesting, larger bulbs, larger scape, both scape and
bulbs are very hot to the taste, longer shelf life, higher yield
and healthier cultivation and culinary values.

BRIEF DESCRIPTION OF THE DRAWINGS

The present variety will become more fully understood
from the detailed description and the accompanying draw-
ings, wherein:

FIG. 1 is a photographic print in full color of a first perspective of 'MMG1', wherein the plant is in the foreground and the additional plants or portions thereof in the background and the grass on the ground are not part of 'MMG1';

FIG. 2 is a photographic print in full color of a second perspective of a 'MMG1' plant, wherein the plant has been harvested;

FIG. 3 is a photographic print in full color illustrating a first 'MMG1' sectional view of bulb clusters, wherein the bulbs shown are mature;

FIG. 4 is a photographic print in full color illustrating a second 'MMG1' bulb with exemplary bulb clusters; wherein most, but not all, of the bulb shown are mature;

FIG. 5 is a photographic print in full color illustrating a second 'MMG1' umbel; and

FIG. 6 is a photographic print in full color illustrating cloves (divided segments of bulbs) of 'MMG1' as used for asexual propagation.

DETAILED BOTANICAL DESCRIPTION

The following observations, measurements and values describe the cultivar as grown in the Willamette Valley, Oreg., under conditions which closely approximate those generally used in commercial practice. Color designations are based on The R.H.S. Colour Chart.

Origin: Grape Lane Poultry Farm, Willamette Valley, Oreg.

Parentage: Unknown.

Classification:

Botanical.—*Allium sativum* L.

Plant: Garlic.

Form.—Bulbous herb.

Height including umbel.—6.5 to 7 feet, depending on cultivation conditions. when grown in Willamette Valley, Oreg.

Growth habit.—Fast response, very vigorous growth and volume (in comparison to standard variety 'Elephant Garlic'.

Harvest/typical growing season.—In one growing season only one harvest takes place. The typical growing season is from October to July in Western United States climate conditions and from October to June in sub-Mediterranean conditions.

Blooming season.—Late May-mid June.

Average time of harvest.—August.

Plant hardiness zone.—Zone 7a.

Foliage:

Quantity.—Up to 11 leaves depending on cultivation conditions.

Size.—Minimum leaf length is 3 feet, maximum leaf length is 5 feet, depending on cultivation conditions.

Shape of leaf.—Elongated.

Aspect.—Arched to hanging.

Color.—Light emerald green for both upper and lower leaf surfaces. 142A.

Leaf width.—Small taper from plant stem broadening to a wider center of 4 to 6 inches before tapering to a pointed tip.

Apex.—Acute.

Base.—Sessile.

Texture.—Satin.

Stem coloration.—Converts from emerald green to light green. 142A.

Scape:

Length.—9" to 12" depending on cultivation conditions.

Diameter.— $\frac{3}{8}$ - $\frac{1}{2}$ ".

Color.—RHS 160A.

Color.—Purple flower 72A.

Umbels: Large umbels that shed their spathes at maturity; 4" average size, 200 average number of flowers.

Bulbils.—Rare. When present are $\frac{5}{8}$ " average size, globe shape, RHS 73A color.

Spathe.—Sheds at maturity of plant.

Bulb shape.—Spherical; rounded at base.

Size.—Average of 3-4" diameter, depending on cultivation conditions; average height 2-3".

Bulb position: Slightly depressed.

Average bulb yield per plant.—6.

Color.—Cream color to light golden. 8D.

Number of cloves.—5 to 6.

Clove color.—White. 8D.

Clove skin color.—Golden yellow. 162A.

Clove shape.—Transversely in triangular shape with round edges.

Clove length.—4 to 6 inches longitudinal section running to a point.

Clove diameter.—1-1.5 inches at the widest part.

Clove texture.—Glossy with and without the skin.

Clove distribution.—Radial.

Disease resistance: Very high for mildew, rust and botrytis. Showed stable growth and health through climate changes in weather on the Willamette Valley floor. Wetter conditions than normal.

Other characteristics: Storability over a year. Pollen. is produced.

Pseudostem: $\frac{1}{2}$ " average diameter, RHS 160A coloration at base.

Anthocyanin: Absent.

Flowering stem curvature: Straight.

Dry external scales ground color (white, yellowish white or reddish white): White. 15B, 42B.

Market use: Fresh.

What is claimed is:

1. A new and distinct cultivar of garlic plant named 'MMG-1', as illustrated and described.

* * * * *

Figure 1



Figure 2

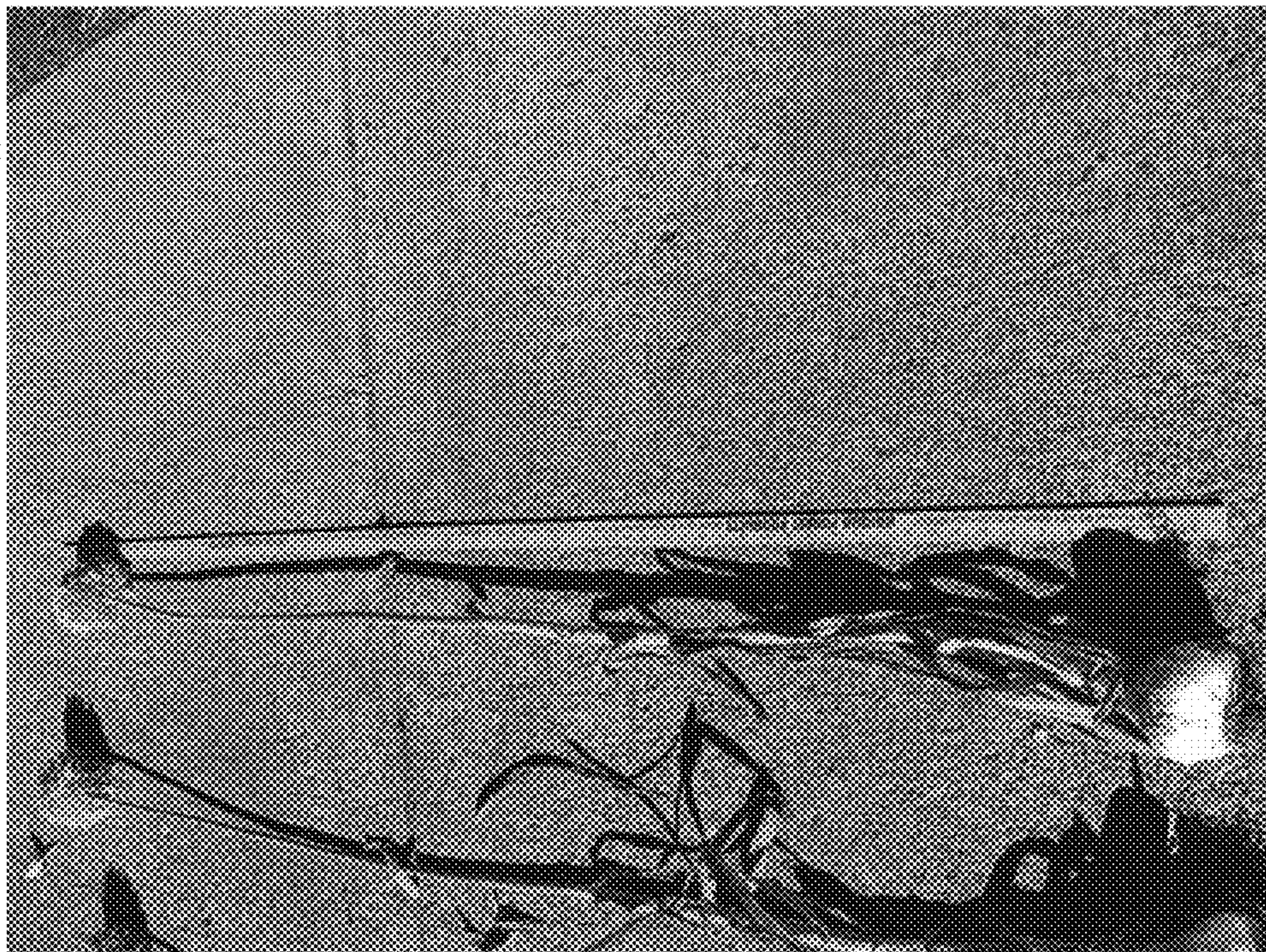


Figure 3

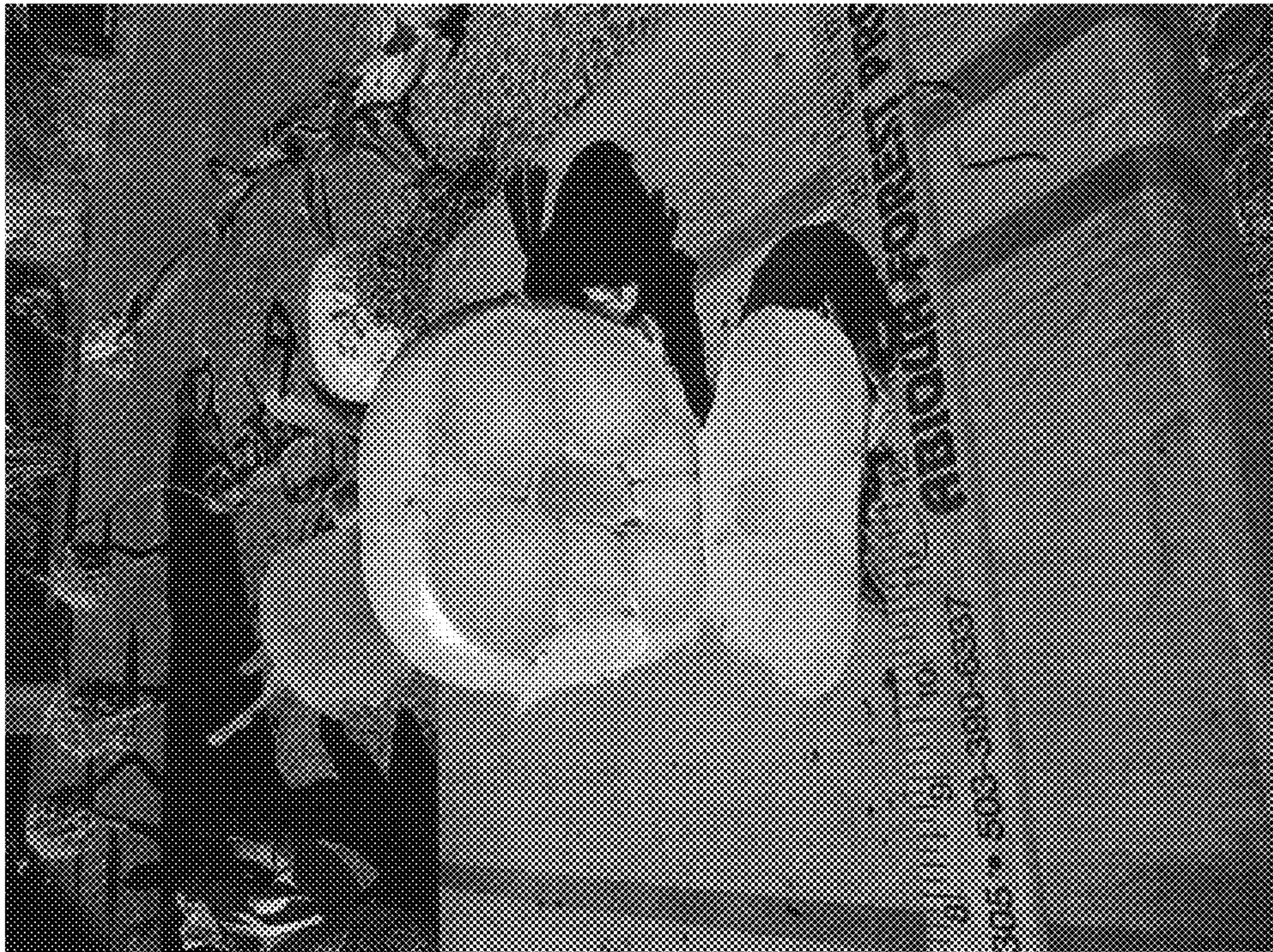


Figure 4

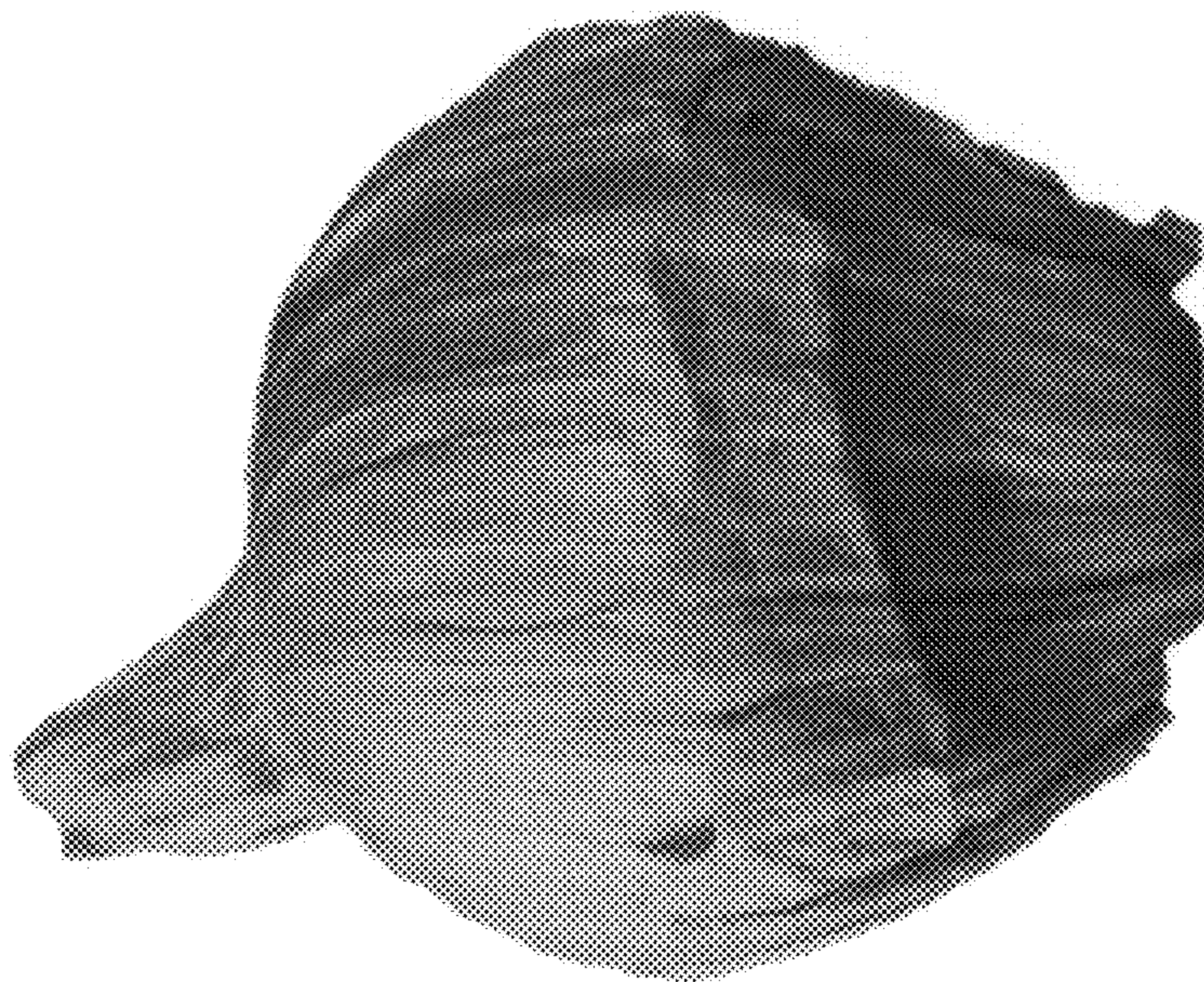


Figure 5



Figure 6

