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(12) **United States Plant Patent**
Blom

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(54) **CHRYSANTHEMUM PLANT NAMED**
'ZANMUGOLDRU'

(50) Latin Name: *Chrysanthemum×morifolium*
Varietal Denomination: **Zanmugoldru**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

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(65) **Prior Publication Data**

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(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./289**

(58) **Field of Classification Search** Plt./289
See application file for complete search history.

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(57) **ABSTRACT**

A *chrysanthemum* plant named 'Zanmugoldru' characterized
by its small sized blooms with yellow ray florets and prolific
branching; natural season flower date October 8 (week 41);
blooming for a period of 5 weeks.

3 Drawing Sheets

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Botanical designation: *Chrysanthemum×morifolium*
Ramat.

Cultivar denomination: 'Zanmugoldru'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *chrysanthemum* plant, botanically known as *Chrysanthemum×morifolium* Ramat., commercially grown as a garden
mum, and herein after referred to by the cultivar denomina-
tion 'Zanumgoldru'. 'Zanmugoldru' is a product of a breed-
ing and selection program for outdoor pot mums (garden
mums) which had the objective of creating new *chrysanthemum*
cultivars with a double type flower, a natural season
flower date around October 8 (week 41); blooming for a
period of 5 weeks. 'Zanmugoldru' is a seedling resulting from
a crossing of the seed parent id 995 and the pollen parent id
710. Plants of the new cultivar 'Zanmugoldru' differ from
plants of the parents mainly in natural-season flowering (1)
and flower color (2). (1) The plants of the seed parent flower
in early season, while those of 'Zanmugoldru' in late season.
(2) The flowers of the pollen parent are more pale yellow than
those of 'Zanmugoldru'

The new and distinct cultivar was discovered and selected
as a flowering plant by Wilhelmus Bernardus Blom on a
cultivated field in Rijnsenhout, The Netherlands in 2005. The
first act of asexual production of 'Zanmugoldru' was accom-
plished when vegetative cuttings from the initial selection in
2005 were propagated further in a controlled environment in
Rijnsenhout, The Netherlands. The new cultivar has been
found to retain its distinctive characteristics through succes-
sive propagations.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of
chrysanthemum is shown in the accompanying drawings, the
color being as nearly true as possible with color photographs
of this type.

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FIG. 1 shows a plant of the cultivar in full bloom.

FIG. 2 shows the various stages of bloom of the new cul-
tivar.

FIG. 3 shows the various stages of foliage of the new
cultivar.

DESCRIPTION OF THE INVENTION

The observations and measurements were gathered from
plants grown out door in DeMotte, Ind., USA, under natural
day length and temperature and planted in week 25 in 2007.
The natural blooming date of this crop was October 8 (week
41). The average height of the plants was 30 cm. No growth
retardants were used. No tests were done on disease or insect
resistance or susceptibility. No tests were done on cold or
drought tolerance. This new variety produces small sized
blooms with yellow ray florets blooming for a period of 5
weeks.

From the cultivars known to inventor the most similar
existing cultivar in comparison to 'Zanmugoldru' is 'Castor'
(U.S. Plant Pat. No. 14,612). When 'Castor' and 'Zanmugol-
dru' are being compared the following difference is noticed:
The difference of 'Castor' and 'Zanmugoldru' are (1) Flower
size. And (2) Color flower center (1) The flowers of 'Castor'
are larger in size than those of 'Zanmugoldru' (2) The flower
center of 'Zanmugoldru' are more orange colored than those
of 'Castor'.

The following is a description of the plant and character-
istics that distinguish 'Zanmugoldru' as a new and distinct
variety.

The color designations are taken from the plant itself.
Accordingly, any discrepancies between the color designa-
tions and the colors depicted in the photographs are due to
photographic tolerances. The color chart used in this descrip-
tion is: The Royal Horticultural Society Colour Chart, edition
2001.

TABLE 1

Botanical description of <i>chrysanthemum</i> plant named ‘Zanmugoldru’	
<u>Bud</u>	
Size	Small; cross-section 0.1 cm, height 0.5 cm
Outside Color	Greyed-green 191A
Phyllaries	3 rows
Phyllaries among disc-florets	Not present
<u>Bloom</u>	
Type	Double
Height	1.4-1.7 cm
Size	3.7-4 cm
Phyllary number	20-24
Phyllary color (upper surface)	Green 138A
Phyllary length and width	Length 8 mm, width 3 mm
Peduncle length	9 cm
Peduncle color	Greyed green 191B
Number of blooms per branch	Approx. 7 blooms per branch
Duration of flowering	5 weeks
Seeds	None observed
Fragrance	Typical <i>chrysanthemum</i> , slightly
<u>Color</u>	
Center of the flower	Immature stage: Yellow-orange 15A Mature stage: Yellow-orange 15A
Color of upper surface of the ray-florets	Yellow 9A
Color of the lower surface of the ray-florets	Yellow 9A
Tonality from Distance	A garden mum with yellow flowers
Color of the ray-florets after aging of the plant	Yellow 9C
<u>Ray florets</u>	
Texture	Upper and under side smooth
Number	240-250
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	0.2-0.5 cm
Ray-floret margin	Entire
Ray-floret length	1.3-1.7 cm
Ray-floret width	0.4-0.5 cm
Ratio length/width	Medium
Shape of tip	Emarginate
Disc florets	Absent
Receptacle shape	Conical raised
<u>Reproductive Organs</u>	
Stamen	Absent
Pistil	One per ray-floret
Styles	Thin
Style color	Yellow-green 154C
Style Length	0.3 cm
Stigma color	Yellow 3A
Stigma Width	5 mm
Ovaries	Enclosed in calyx

TABLE 1-continued

Botanical description of <i>chrysanthemum</i> plant named ‘Zanmugoldru’	
5	<u>Plant</u>
	Form
	Grown as a spray type potmum, outdoor mounded and round
	Growth habit
	Raised mound
	Growth rate
	Medium to high
10	Height
	30 cm
	Width
	50-55 cm
	Stem Color
	Greyed-brown 199A
	Stem Strength
	Strong
	Stem Brittleness
	Not brittle
	Stem Anthocyanin Coloration
	Not observed
15	Internode length
	1-5 cm
	Length of lateral branch
	From top to bottom 24-26 cm
	Lateral branch color
	Green 137C
	Lateral branch, attachment
	Strong
	Branching (average number of lateral branches)
	Prolific with 14-16 breaks after pinching
20	Natural season blooming date
	October 8 (week 41)
	<u>Foliage</u>
	Leaf color
	Upper side: Green 147A
	Lower side: Green 147C
	Color midvein
	Upper side: Green 137B
	Lower side: Green 137B
25	Size
	Small.; length 4-9 cm, width 2-4.5 cm
	Quantity (number per lateral branch)
	18-20
	Shape
	Elliptic
	Texture upper side
	Sparsely pubescent
30	Texture under side
	Pubescent
	Venation arrangement
	Pinnate to palmate
	Shape of the margin
	Lobed
	Shape of Base of Sinus Between Lateral Lobes
	Rounded
	Margin of Sinus Between Lateral Lobes
	Diverging
35	Shape of Base
	Cuneate to obtuse
	Apex
	Mucronate
	Petiole length
	1-2 cm
	Petiole color
	Green 138A

TABLE 2

<u>Differences with the comparison variety</u>			
45		“Zanmugoldru”	‘Castor’
	Flower size	3.7-4 cm	6.0-7.0 cm
	Colour of flower center in mature stage	Yellow-orange 15A	Yellow 13B

50 I claim:
1. A new and distinct variety of *chrysanthemum* plant ‘Zanmugoldru’ as described and illustrated.

* * * * *

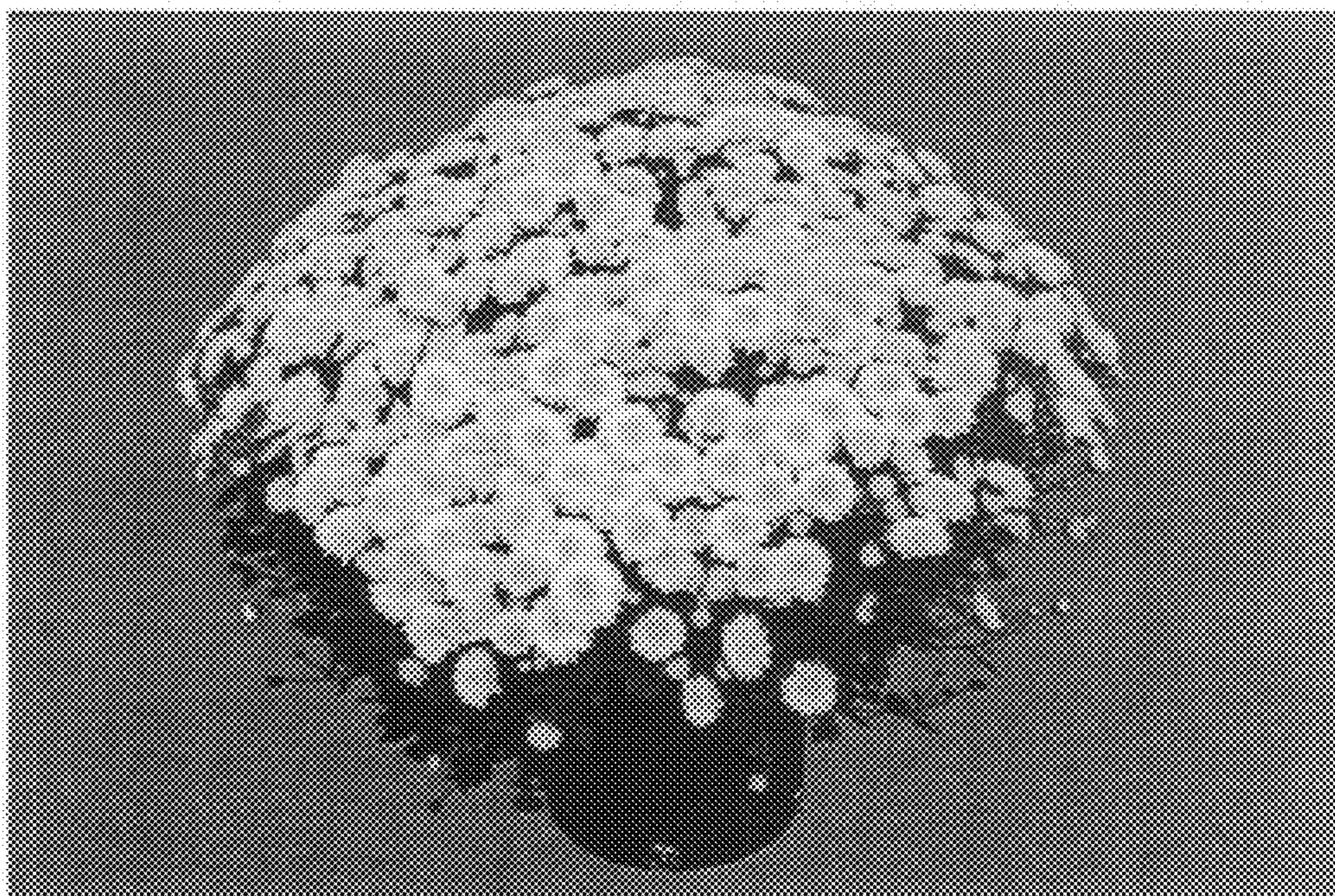


FIG. 1

FIG. 2

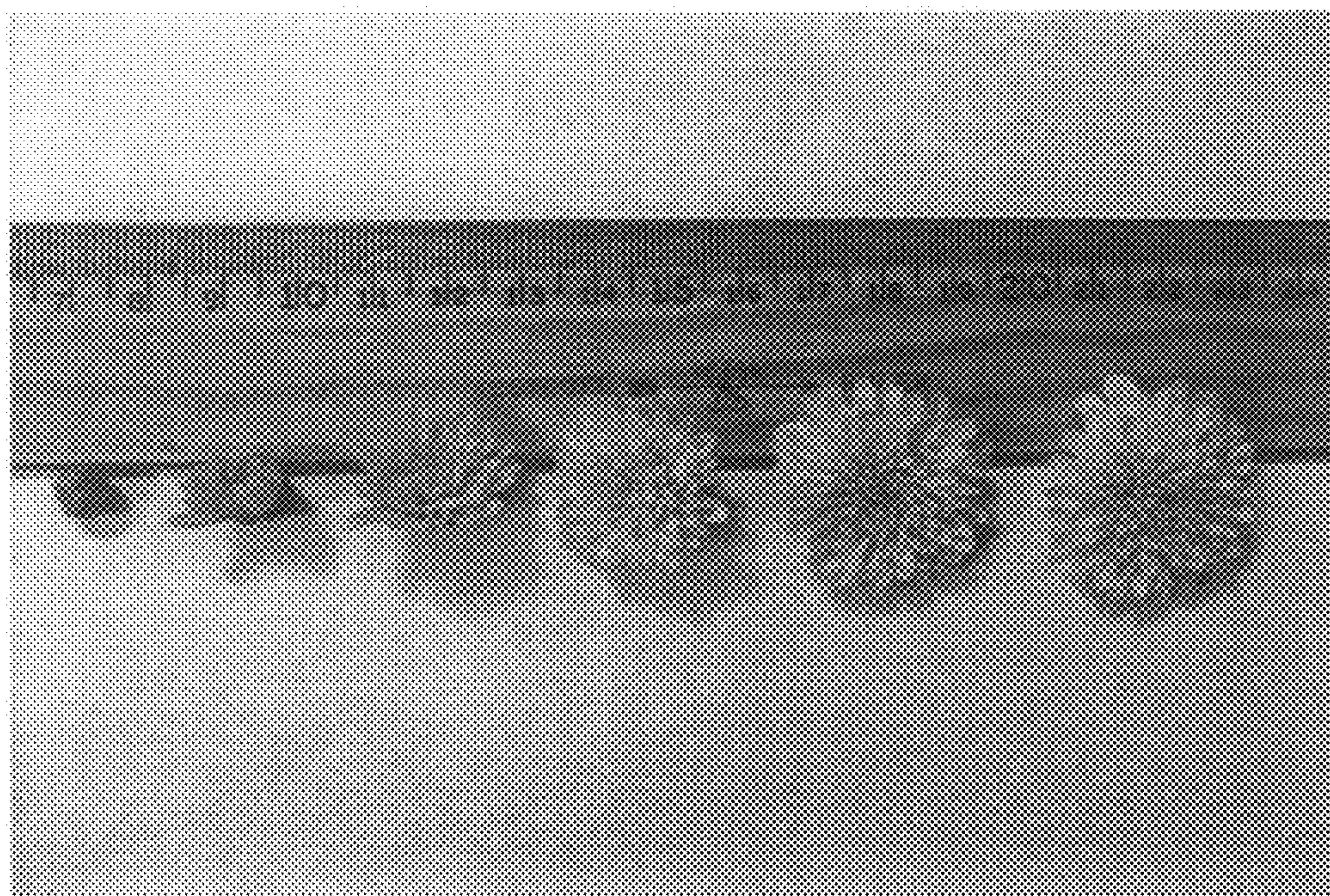


FIG. 3

