



US00D877952S

(12) **United States Design Patent**  
**Gordin et al.**(10) **Patent No.:** **US D877,952 S**  
(45) **Date of Patent:** **\*\* Mar. 10, 2020**

- (54) **ARRAY INCLUDING ADJUSTABLE LIGHTING FIXTURES ON A POLE**
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- (72) Inventors: **Myron Gordin**, Oskaloosa, IA (US); **Steven T. Heaton**, Oskaloosa, IA (US)
- (73) Assignee: **Musco Corporation**, Oskaloosa, IA (US)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/664,975**
- (22) Filed: **Sep. 28, 2018**

**Related U.S. Application Data**

- (62) Division of application No. 29/581,269, filed on Oct. 18, 2016, now Pat. No. Des. 833,662.
- (51) LOC (12) Cl. ..... **26-03**
- (52) U.S. Cl. USPC ..... **D26/63**
- (58) **Field of Classification Search**
- USPC ..... D26/1, 24, 51, 61, 63, 80, 81, 86, 95, D26/102, 110, 127, 138; D25/1, 3, 4, 5, D25/35, 199
- CPC ... E02B 17/021; F21S 2/00; F21S 6/00; F21S 8/00; F21S 8/003; F21S 8/036; F21V 21/116; F21V 21/22
- See application file for complete search history.

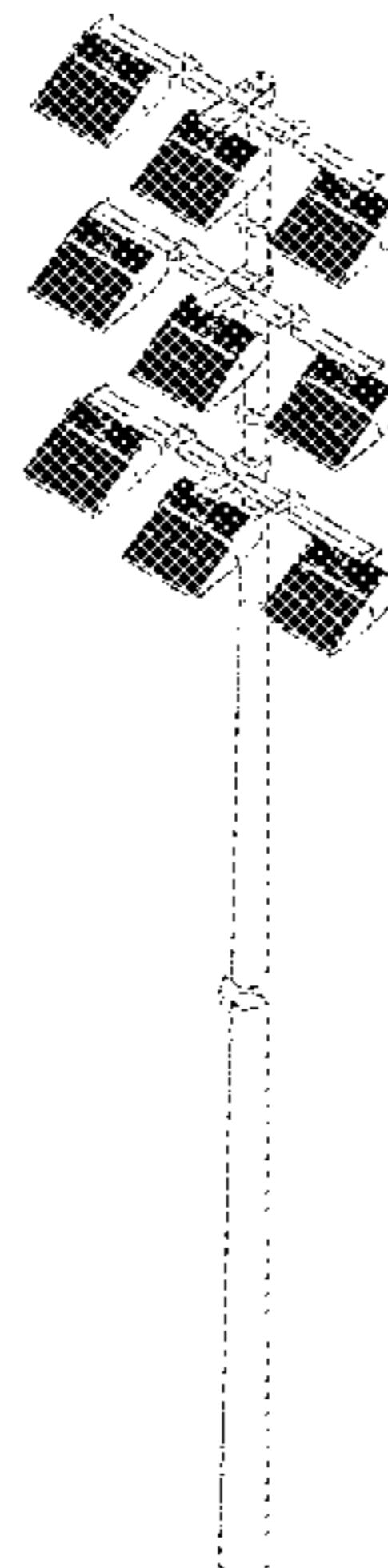
(56) **References Cited****U.S. PATENT DOCUMENTS**

- D158,803 S 5/1950 Russell  
D195,876 S 8/1963 Atkin et al.  
3,358,133 A 12/1967 Thoman et al.  
D246,131 S 10/1977 Schifrin  
4,190,881 A \* 2/1980 Drost ..... F21V 21/116  
362/238  
4,220,981 A \* 9/1980 Koether ..... F21V 21/22  
362/238  
D257,891 S \* 1/1981 Drost ..... D26/102

D300,570 S	4/1989	DeCandia
D332,318 S	1/1993	Reding
D337,168 S *	7/1993	Gordin ..... D25/127
D353,911 S *	12/1994	Gordin ..... D25/127
5,426,577 A *	6/1995	Gordin ..... F21V 21/116 174/45 R
5,647,661 A	7/1997	Gordin et al.
D391,382 S	2/1998	Rahn
5,887,969 A	3/1999	Gordin
D411,025 S	6/1999	Rahn
D411,096 S	6/1999	Gordin et al.
D412,592 S	8/1999	Kowalenko et al.
6,220,726 B1	4/2001	Gordin
6,250,596 B1	6/2001	Gordin et al.
D445,936 S	7/2001	Mier-Langner et al.
D472,339 S	3/2003	Russello et al.
D475,154 S	5/2003	Binsukor
7,484,866 B1	2/2009	Buse
D636,525 S	4/2011	Chang
D641,908 S	7/2011	McKee
D644,370 S	8/2011	Lickiss
8,007,131 B2	8/2011	Liu et al.
D646,826 S	10/2011	Smith
8,104,927 B2	1/2012	Gordin et al.
D655,840 S *	3/2012	Heaton ..... D26/63
D659,280 S	5/2012	Guercio et al.
D672,908 S	12/2012	Wilcox et al.
D694,449 S	11/2013	Walker et al.
D695,949 S	12/2013	Gordin et al.
D695,950 S	12/2013	Gordin et al.
D695,952 S	12/2013	Gordin et al.
8,789,967 B2	7/2014	Gordin et al.
D716,990 S	11/2014	Yu
D743,602 S *	11/2015	Gordin ..... D26/63
D757,343 S *	5/2016	Dupuis ..... D26/110
D797,367 S *	9/2017	Hart ..... D26/138
D808,052 S	1/2018	Gordin et al.
D808,053 S	1/2018	Gordin et al.
2006/0198145 A1	9/2006	Gordin
2009/0122550 A1	5/2009	Gordin et al.
2010/0110671 A1	5/2010	Gordin et al.
2010/0165654 A1	7/2010	Okubo et al.
2011/0074313 A1	3/2011	Gordin
2012/0039077 A1	2/2012	Householder
2013/0250556 A1	9/2013	Gordin et al.
2014/0301078 A1	10/2014	Gordin et al.
2015/0029721 A1	1/2015	Kim

**FOREIGN PATENT DOCUMENTS**

- EP 2056020 A1 5/2009  
RU 2125681 C1 1/1999



WO 9633368 A1 10/1996  
WO 2012166347 A2 12/2012  
WO 2013173837 A1 11/2013

#### OTHER PUBLICATIONS

Musco Corporation, PCT/US2013/041863, filed May 20, 2013, "The International Search Report and the Written Opinion of the International Searching Authority, or the Declaration" dated Aug. 28, 2013, 13 pages.

Musco Corporation, PCT/US2012/037935 filed May 15, 2012, "The International Search Report and the Written Opinion of the International Searching Authority, or the Declaration", 13 pages, dated Jan. 29, 2013.

Musco Corporation, PCT/US2012/037935 filed May 15, 2012, "Transmittal of Copy of International Preliminary Report on Patentability", 8 pages, dated Dec. 12, 2013.

Musco Corporation, Application No. 13791654.0/PCT/US2013/041863, "Extended European Search Report" dated Oct. 25, 2016.

Musco Corporation, PCT/US2013/041863 filed May 20, 2013, "Transmittal of Copy of International Preliminary Report on Patentability", 8 pages, dated Nov. 27, 2014.

Musco Corporation, U.S. Appl. No. 29/500,935, filed Aug. 29, 2014, "Information Disclosure Statement" 4 pages, filed with the USPTO on Aug. 29, 2014.

\* cited by examiner

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(57)

#### CLAIM

The ornamental design for an array including adjustable lighting fixtures on a pole, as shown and described.

#### DESCRIPTION

FIG. 1 is a perspective view of one embodiment of the claimed design;

FIG. 2 is an enlarged perspective view of the upper portion of FIG. 1;

FIG. 3 is a front elevation view of FIG. 2 including a portion of the pole;

FIG. 4 is a back elevation of FIG. 2 including a portion of the pole;

FIG. 5 is a top plan view of FIG. 2;

FIG. 6 is a bottom plan view of FIG. 2 rotated 180 degrees;

FIG. 7 is a right side elevation of FIG. 2 including a portion of the pole;

FIG. 8 is a left side elevation of FIG. 2 including a portion of the pole;

FIG. 9 is a perspective view of another embodiment of the claimed design in a one-crossarm configuration;

FIG. 10 is a front elevation view of FIG. 9 including a portion of the pole;

FIG. 11 is a back elevation of FIG. 9 including a portion of the pole;

FIG. 12 is a right side elevation of FIG. 9 including a portion of the pole;

FIG. 13 is a left side elevation of FIG. 9 including a portion of the pole;

FIG. 14 is a top plan view of FIG. 9;

FIG. 15 is a bottom plan view of FIG. 9 rotated 180 degrees;

FIG. 16 is a perspective view of another embodiment of the claimed design in a two-crossarm configuration;

FIG. 17 is a front elevation view of FIG. 16 including a portion of the pole;

FIG. 18 is a back elevation of FIG. 16 including a portion of the pole;

FIG. 19 is a right side elevation of FIG. 16 including a portion of the pole;

FIG. 20 is a left side elevation of FIG. 16 including a portion of the pole;

FIG. 21 is a top plan view of FIG. 16;

FIG. 22 is a bottom plan view of FIG. 16 rotated 180 degrees;

FIG. 23 is a perspective view of another embodiment of the claimed design in a three-crossarm configuration;

FIG. 24 is a front elevation view of FIG. 23 including a portion of the pole;

FIG. 25 is a back elevation of FIG. 23 including a portion of the pole;

FIG. 26 is a right side elevation of FIG. 23 including a portion of the pole;

FIG. 27 is a left side elevation of FIG. 23 including a portion of the pole;

FIG. 28 is a top plan view of FIG. 23;

FIG. 29 is a bottom plan view of FIG. 23 rotated 180 degrees.

The separations indicated by brackets in FIGS. 1-2, 16, and 23 and indicated by double break lines in FIGS. 3-8, 10-13, 17-20, and 24-27 indicate (i) the precise length of pole and crossarms and (ii) the precise number of lighting fixtures (both total number and number per crossarm) of the array including adjustable lighting fixtures on a pole form no part of the claimed design. The broken lines shown in FIGS. 1-8 indicate unclaimed portions of the array including adjustable lighting fixtures on a pole and form no part of the claimed design. The broken lines at either end of each crossarm and at each lighting fixture entirely in broken line of FIGS. 9-29 indicate (i) the precise length of crossarms and (ii) the precise number of lighting fixtures (both total number and number per crossarm) of the array including adjustable lighting fixtures on a pole form no part of the claimed design; all other broken lines shown in FIGS. 9-29 indicate unclaimed portions of the array including adjustable lighting fixtures on a pole and form no part of the claimed design.

FIG. 30 is a perspective view of the claimed design in a twenty-one lighting fixture configuration;

FIG. 31 is an enlarged perspective view of the upper portion of the design;

FIG. 32 is a front elevation view of FIG. 31 including a portion of the pole;

FIG. 33 is a back elevation of FIG. 31 including a portion of the pole;

FIG. 34 is a top plan view of FIG. 31;

FIG. 35 is a bottom plan view of FIG. 31 rotated 180 degrees;

FIG. 36 is a right side elevation of FIG. 31 including a portion of the pole;

FIG. 37 is a left side elevation of FIG. 31 including a portion of the pole;

FIG. 38 is a perspective view of the claimed design in a seven lighting fixture configuration;

FIG. 39 is an enlarged perspective view of the upper portion of the design;

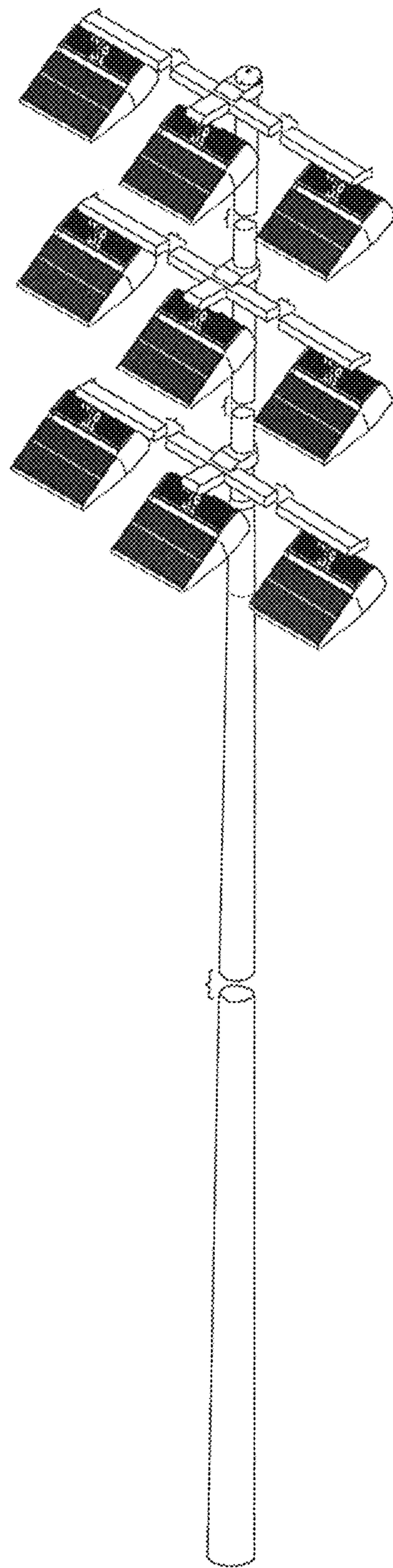
FIG. 40 is a front elevation view of FIG. 39 including a portion of the pole;

FIG. 41 is a back elevation of FIG. 39 including a portion of the pole;

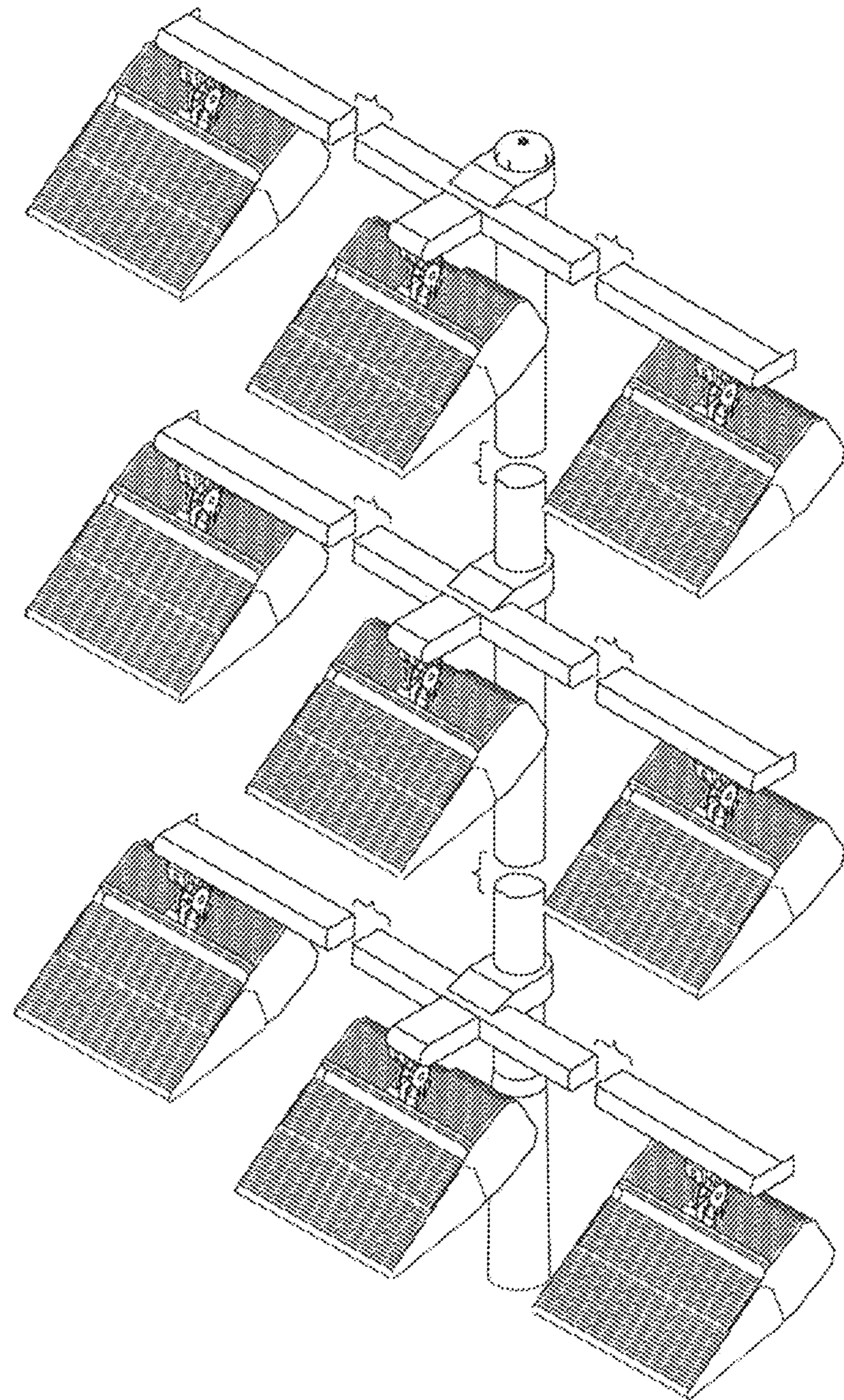
FIG. 42 is a top plan view of FIG. 39;  
FIG. 43 is a bottom plan view of FIG. 39 rotated 180 degrees;  
FIG. 44 is a right side elevation of FIG. 39 including a portion of the pole;  
FIG. 45 is a left side elevation of FIG. 39 including a portion of the pole;  
FIG. 46 is a perspective view of the claimed design in a fourteen lighting fixture configuration;  
FIG. 47 is an enlarged perspective view of the upper portion of the design;  
FIG. 48 is a front elevation view of FIG. 47 including a portion of the pole;  
FIG. 49 is a back elevation of FIG. 47 including a portion of the pole;  
FIG. 50 is a top plan view of FIG. 47;  
FIG. 51 is a bottom plan view of FIG. 47 rotated 180 degrees;  
FIG. 52 is a right side elevation of FIG. 47 including a portion of the pole;  
FIG. 53 is a left side elevation of FIG. 47 including a portion of the pole;  
FIG. 54 is a perspective view of the claimed design in a fifteen lighting fixture configuration;  
FIG. 55 is an enlarged perspective view of the upper portion of the design;

FIG. 56 is a front elevation view of FIG. 55 including a portion of the pole;  
FIG. 57 is a back elevation of FIG. 55 including a portion of the pole;  
FIG. 58 is a top plan view of FIG. 55;  
FIG. 59 is a bottom plan view of FIG. 55 rotated 180 degrees;  
FIG. 60 is a right side elevation of FIG. 55 including a portion of the pole;  
FIG. 61 is a left side elevation of FIG. 55 including a portion of the pole;  
FIG. 62 is an isolated back perspective view of the lighting fixture of FIGS. 1-61; and,  
FIG. 63 is an isolated front perspective view of the lighting fixture of FIGS. 1-61.  
The separations indicated by brackets in FIGS. 30, 38, 46 and 54 and indicated by double break lines in FIGS. 32, 33, 36, 37, 40, 41, 44, 45, 48, 49, 52, 53, 56, 57, 60 and 61 indicate the precise length of pole of the array including adjustable lighting fixtures on a pole form no part of the claimed design. The broken lines shown in FIGS. 30-63 indicate unclaimed portions of the array including adjustable lighting fixtures on a pole and form no part of the claimed design.

**1 Claim, 63 Drawing Sheets**



**FIG 1**



**FIG 2**

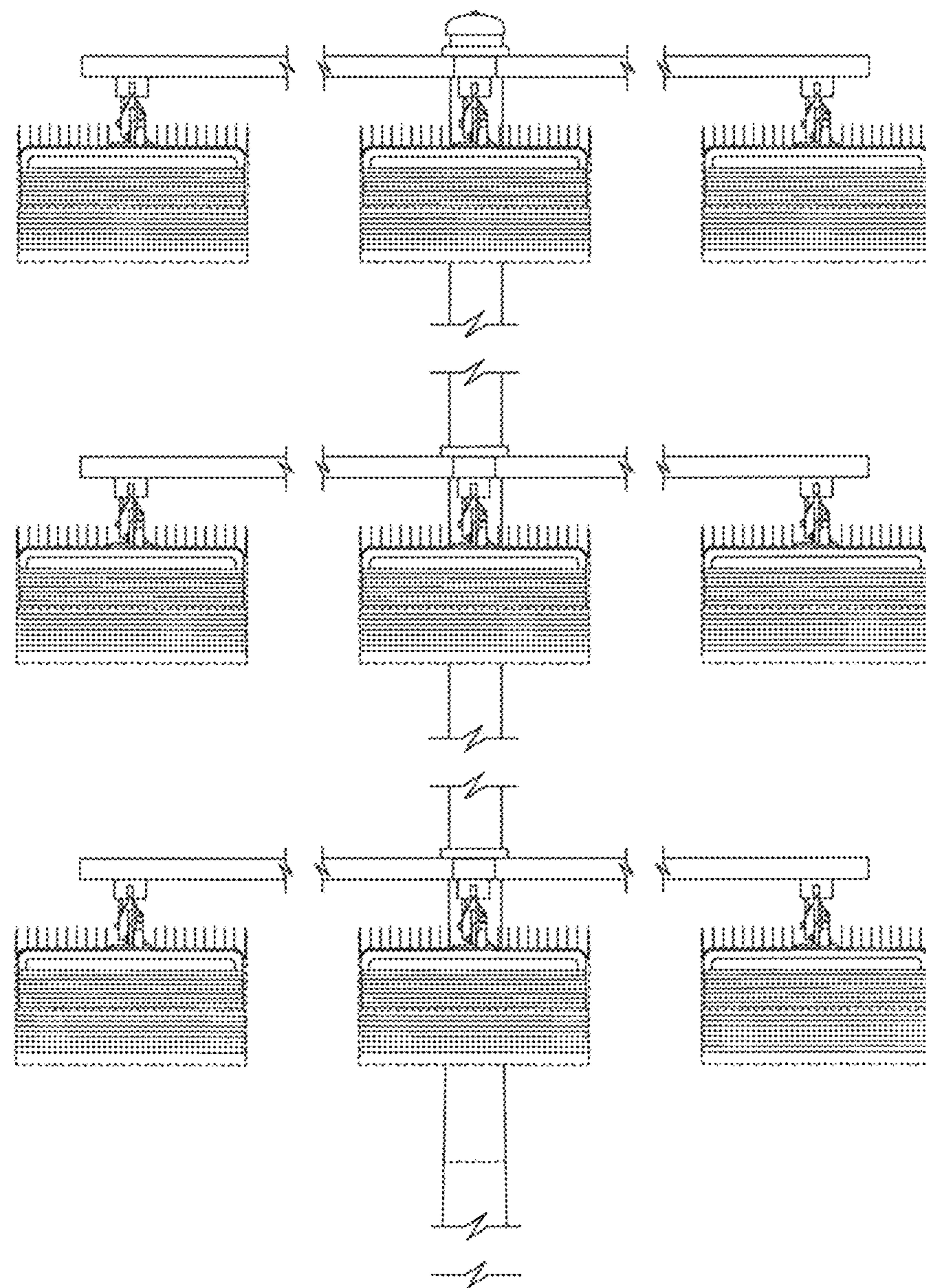


FIG 3

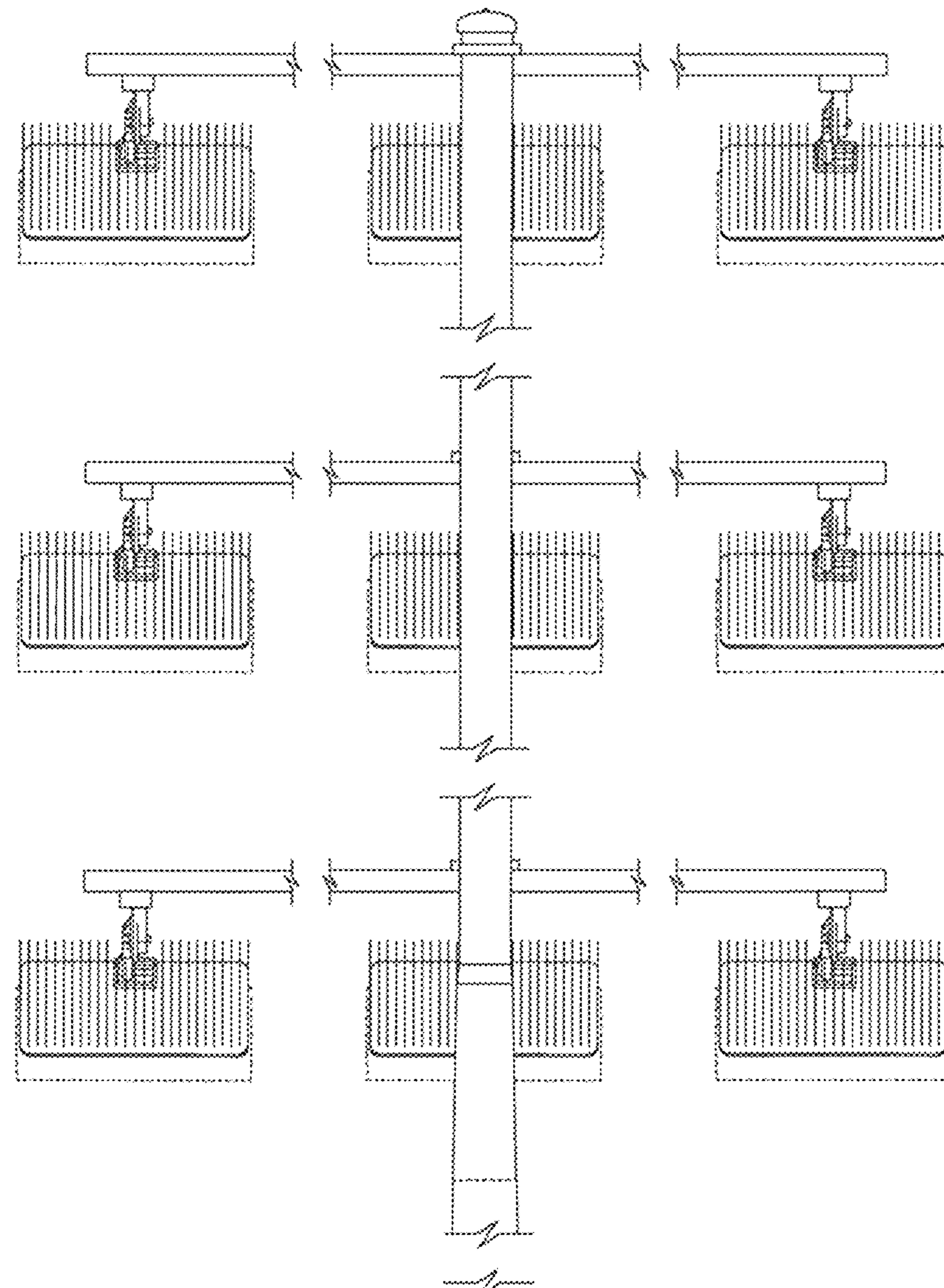


FIG 4

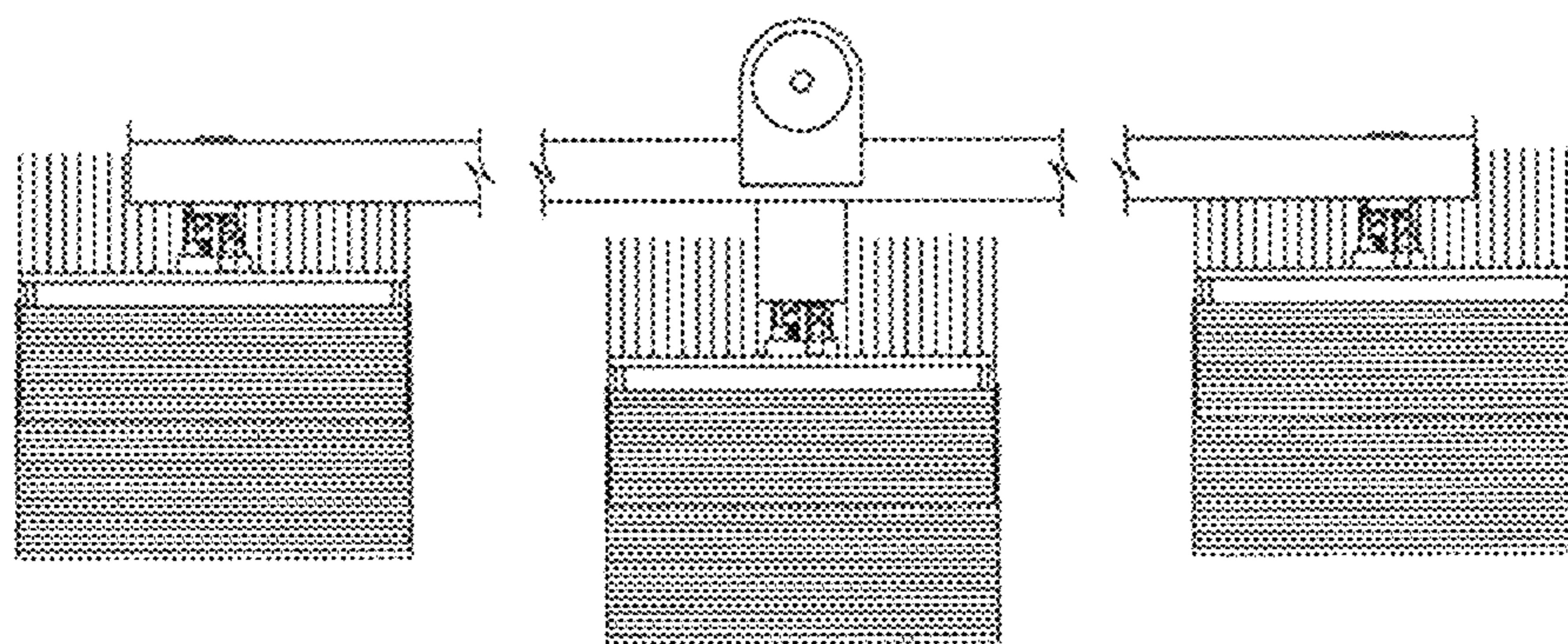
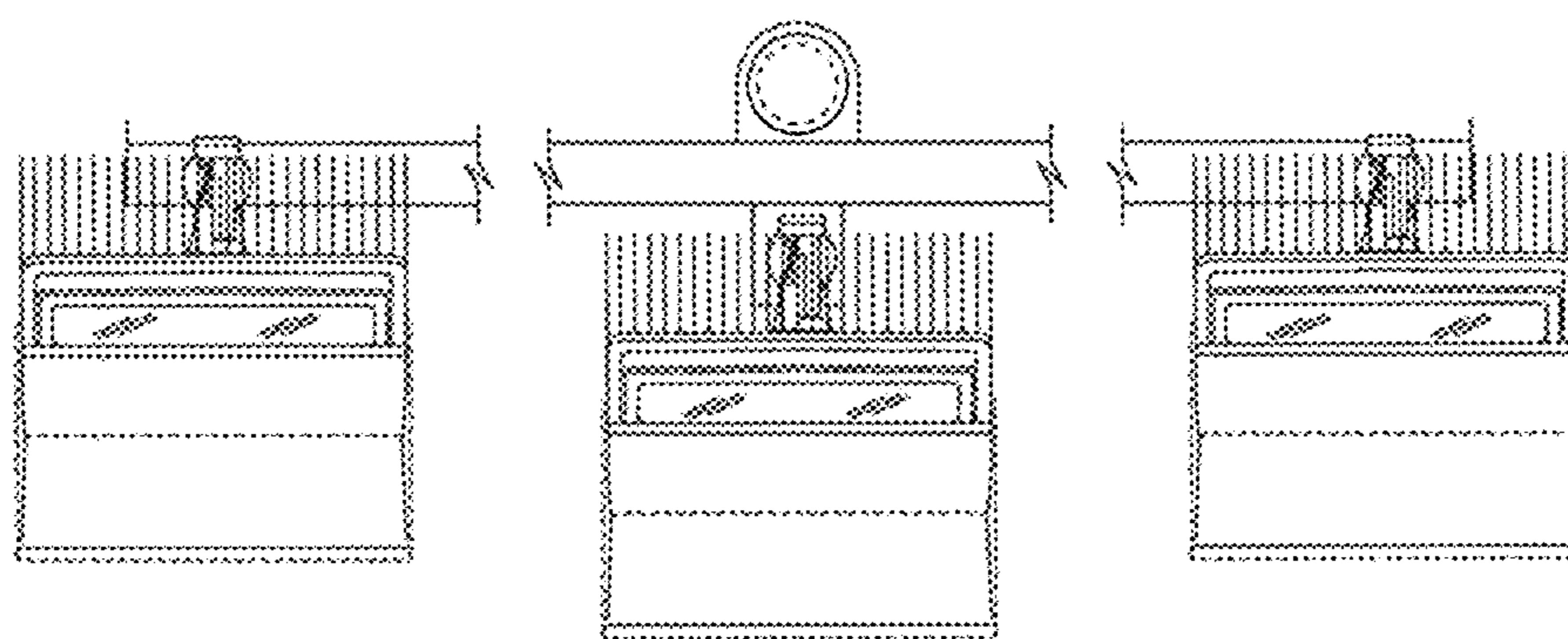


FIG 5



**FIG 6**

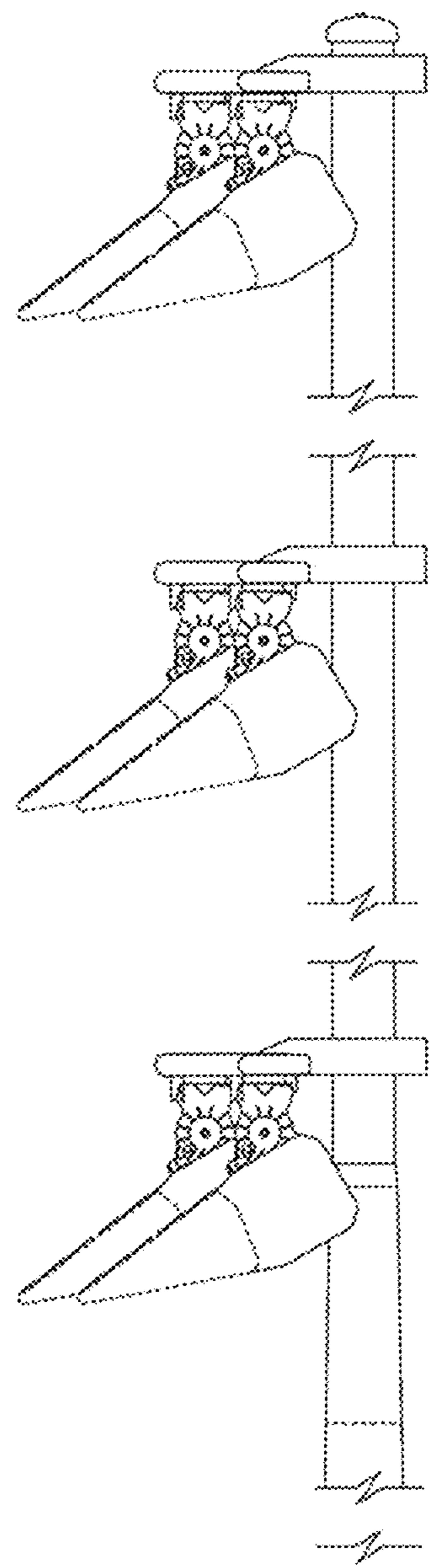


FIG 7

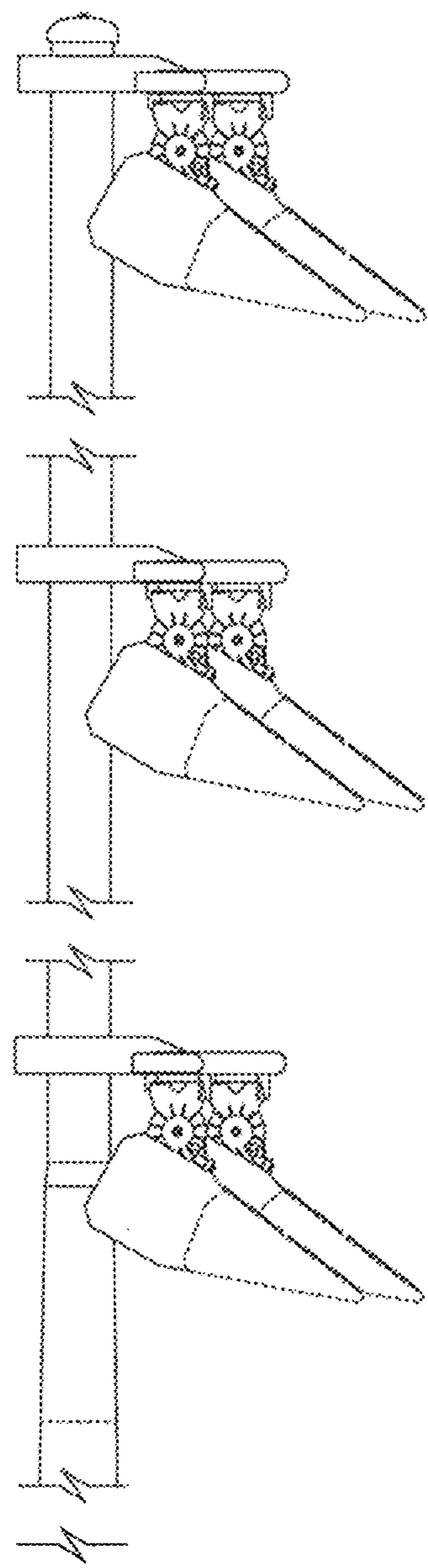
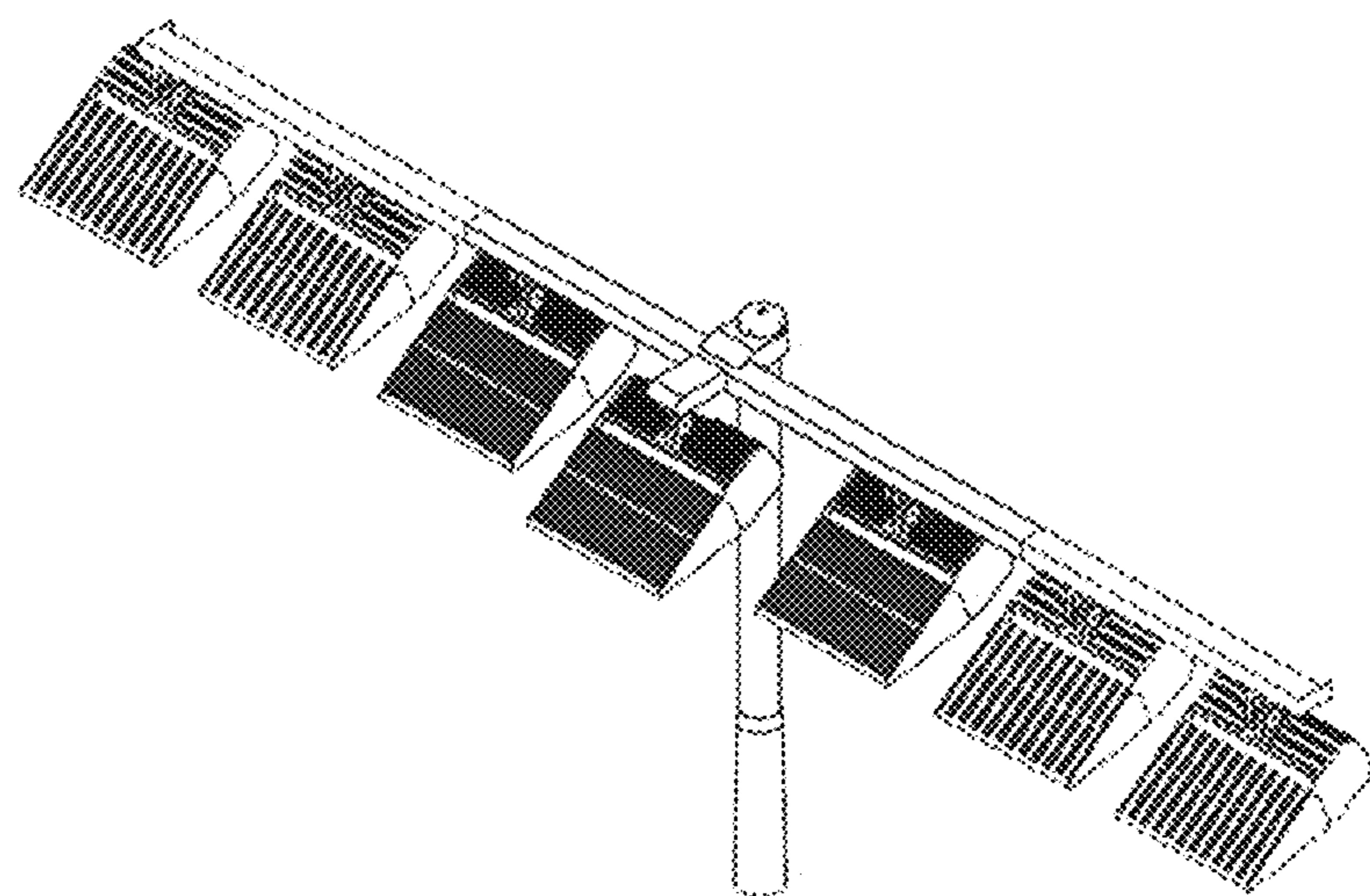


FIG 8



**FIG 9**

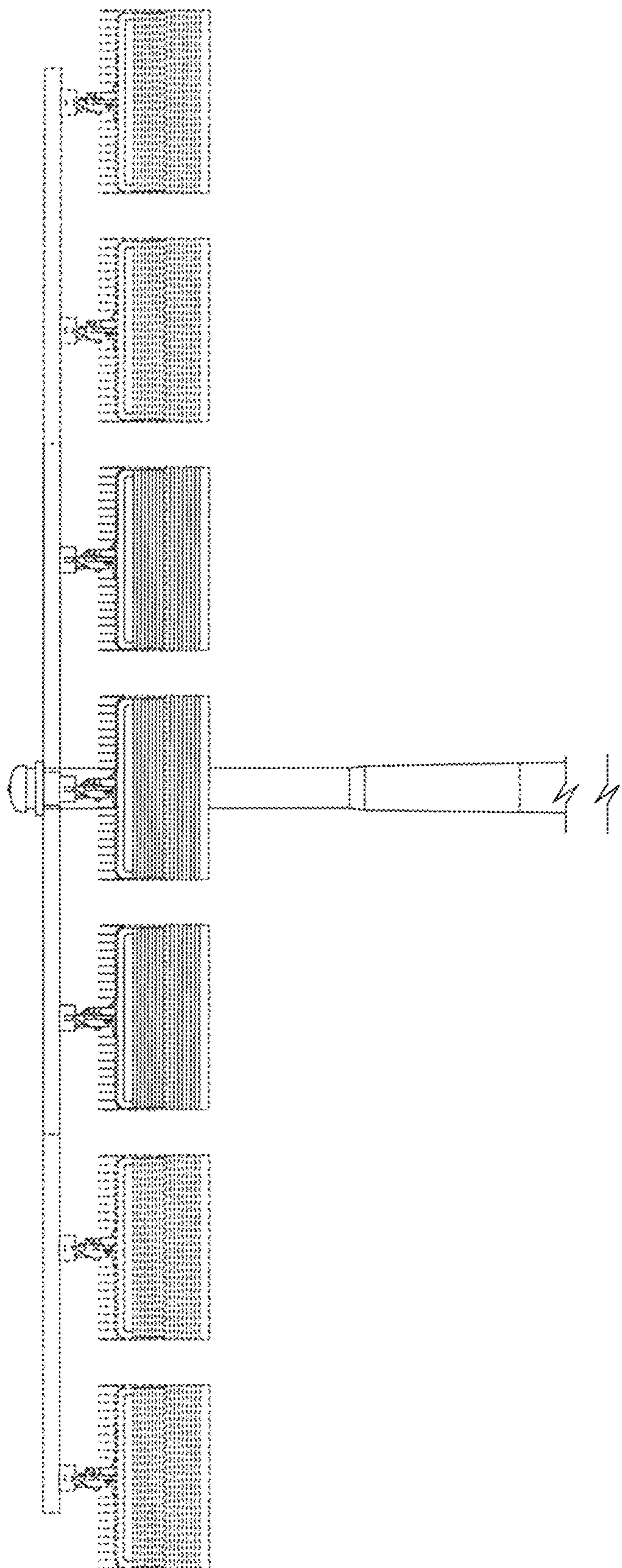
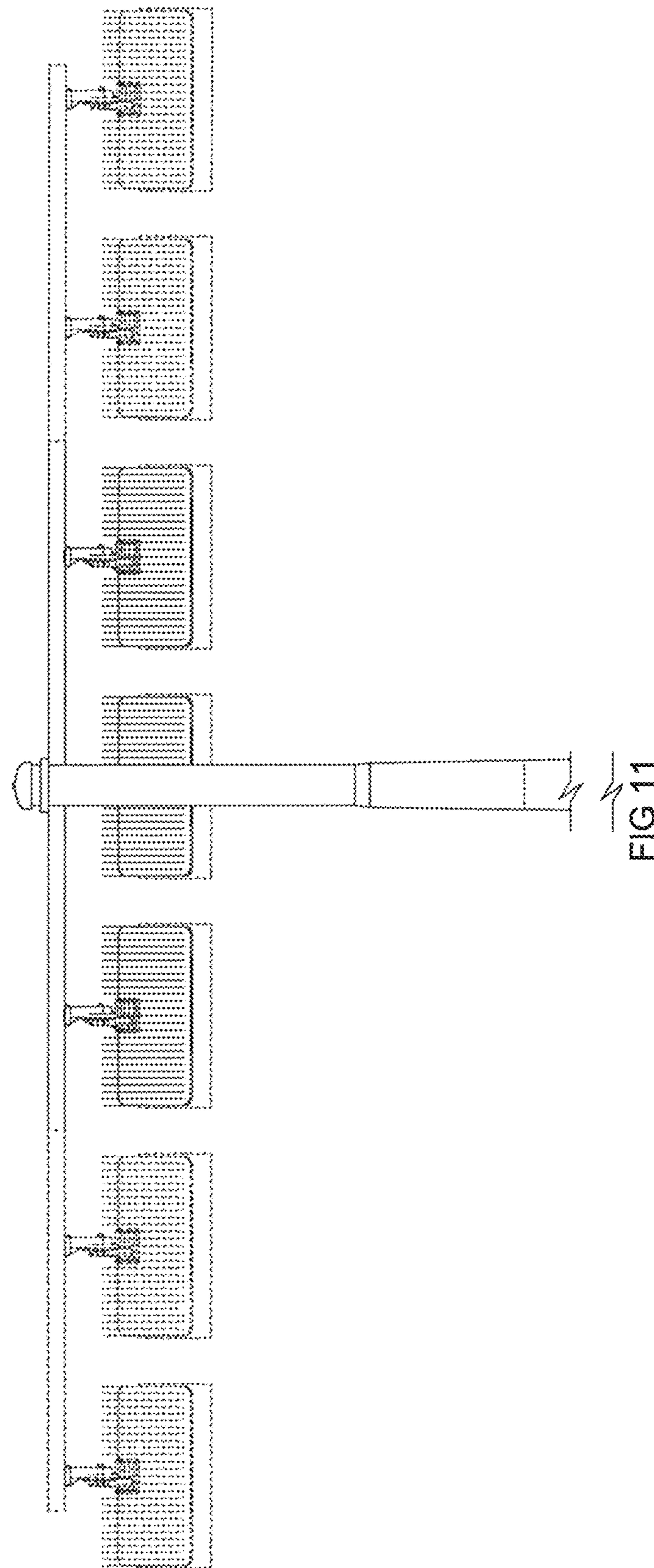
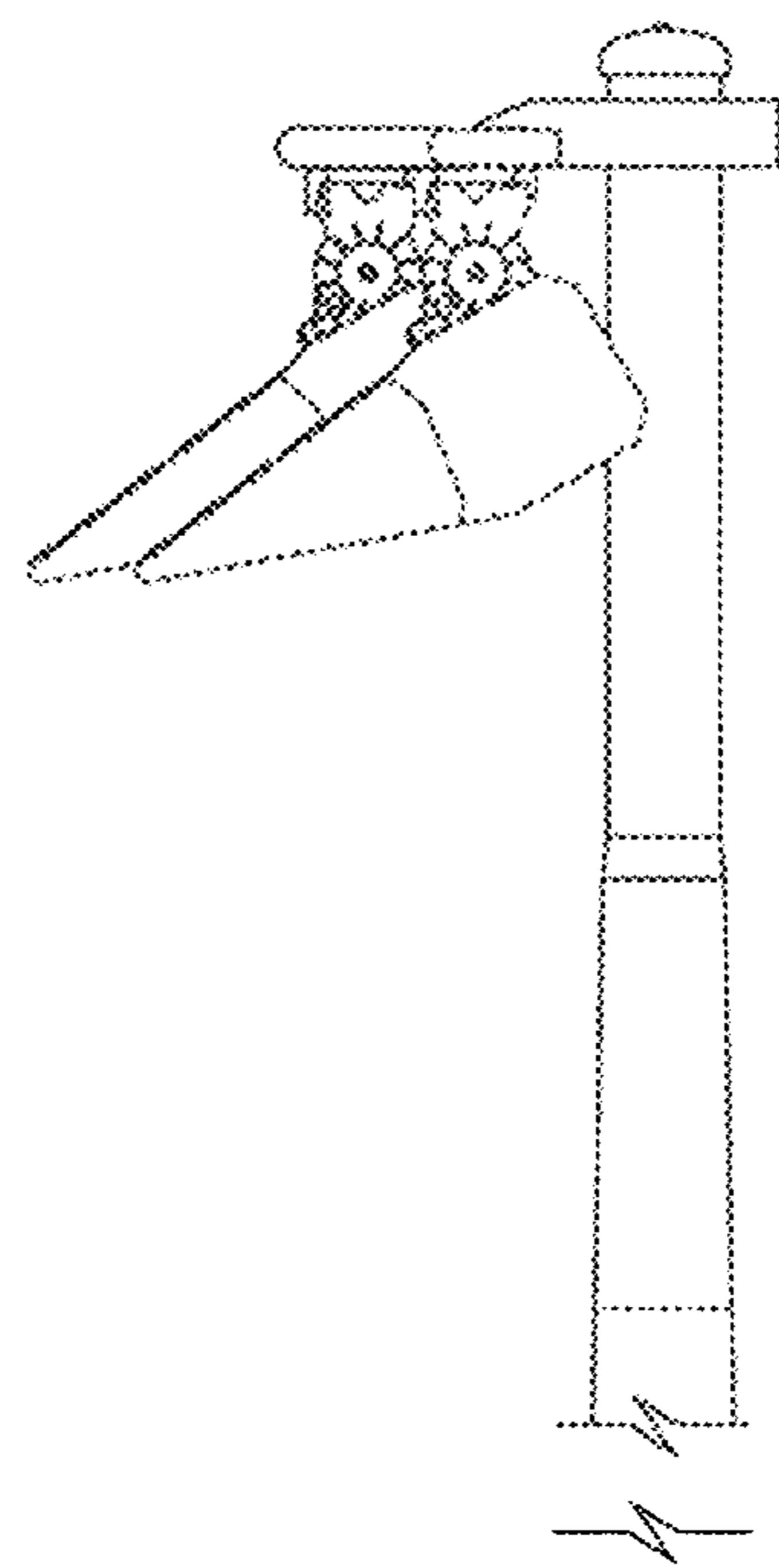
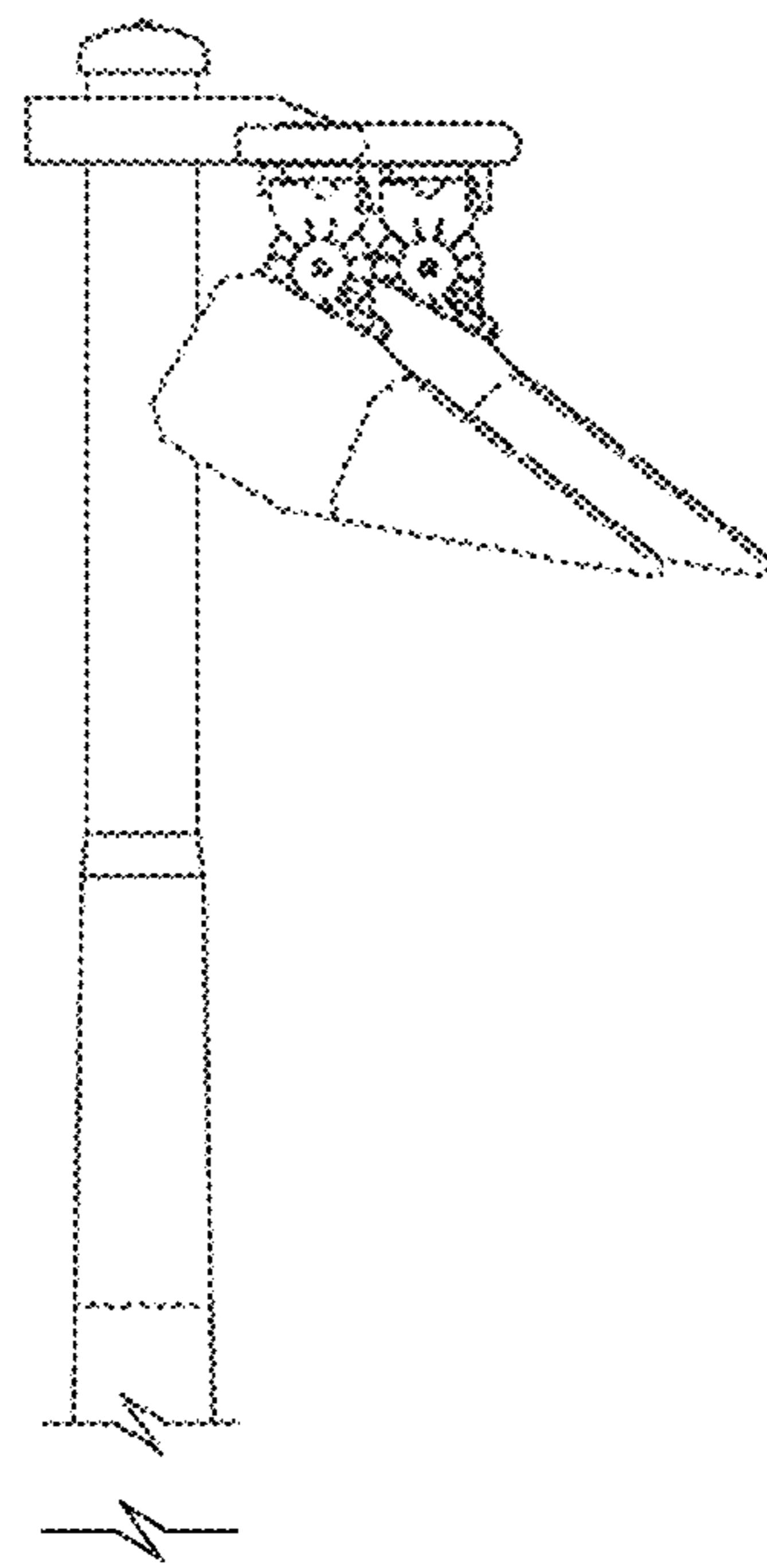


FIG 10





**FIG 12**



**FIG 13**

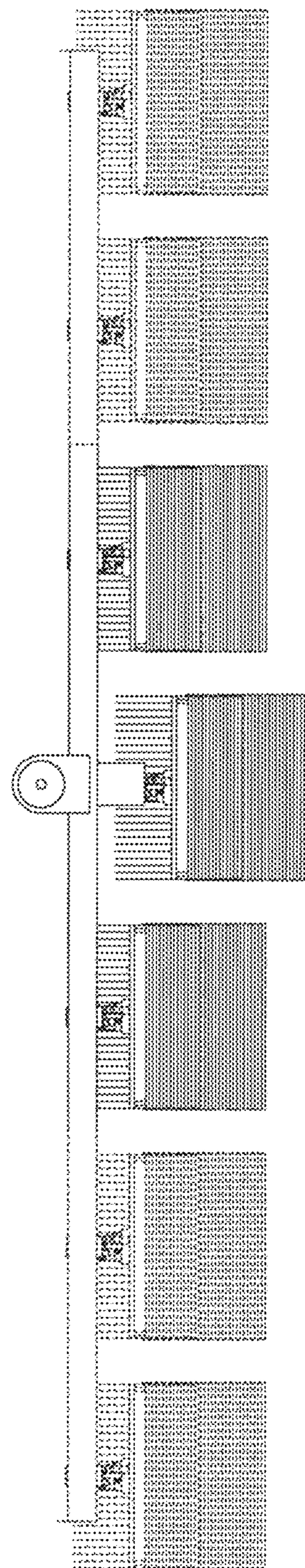
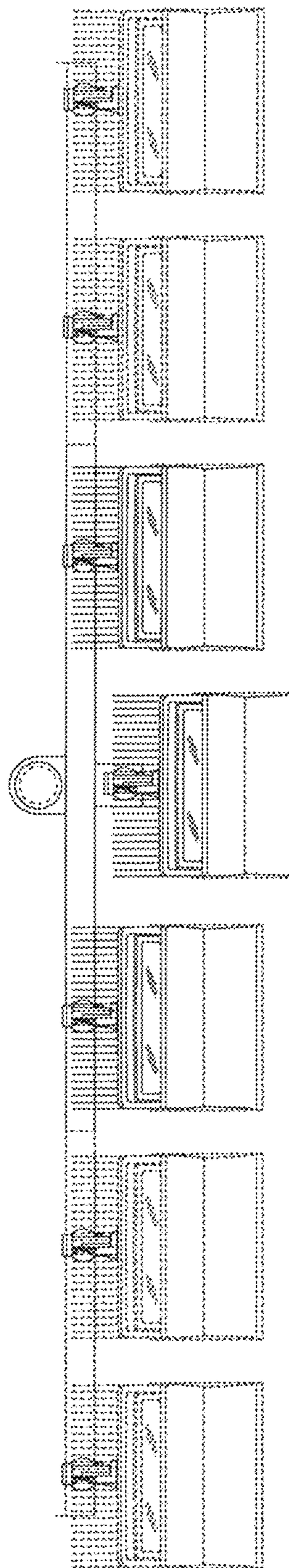
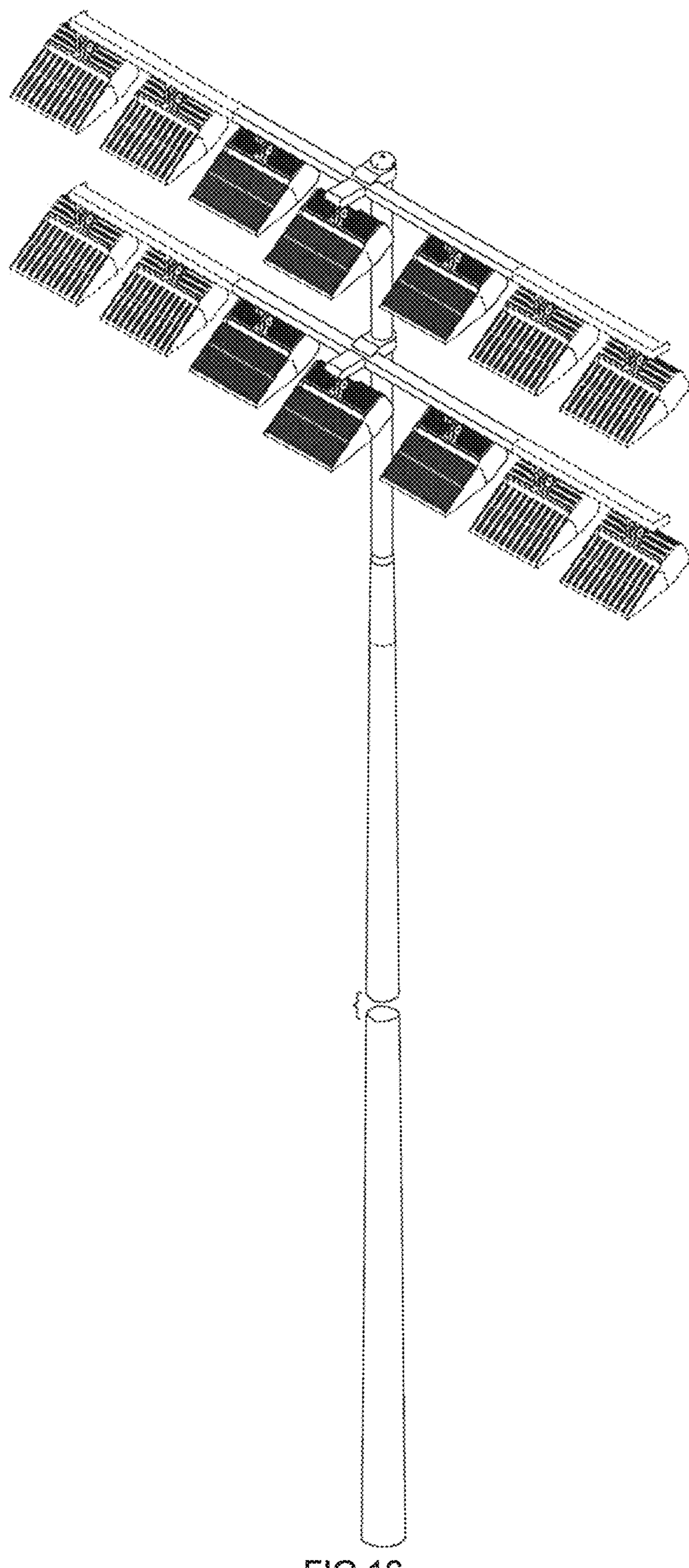


FIG 14



**FIG 15**



**FIG 16**

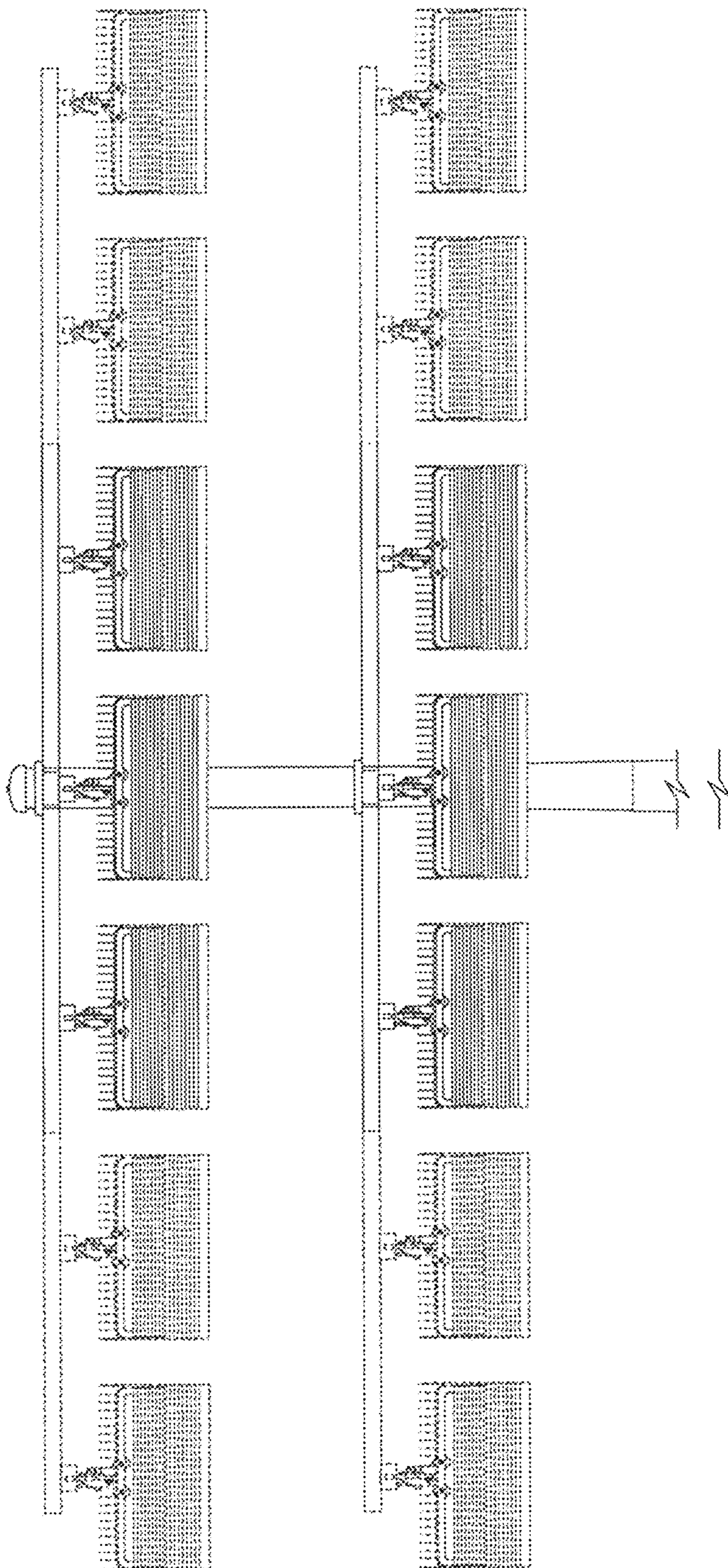


FIG 17

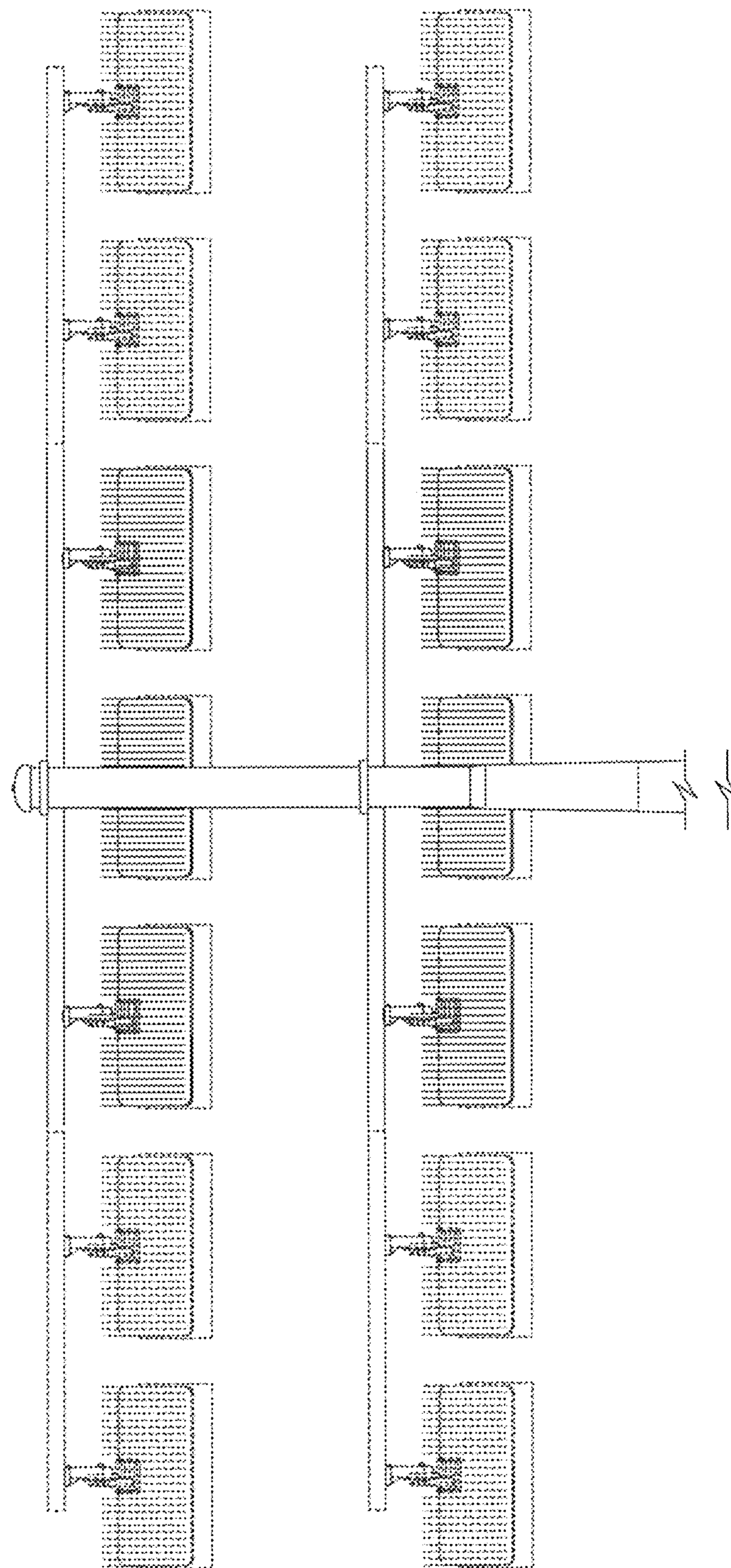
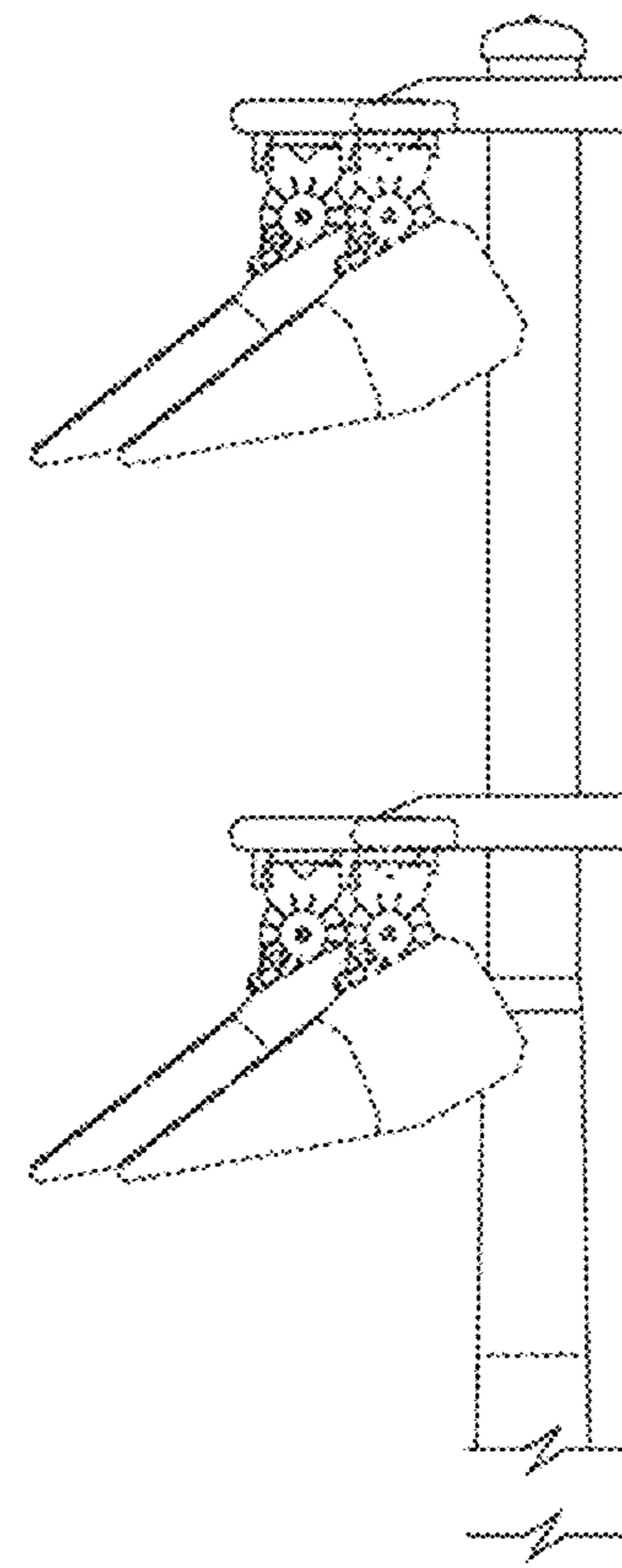
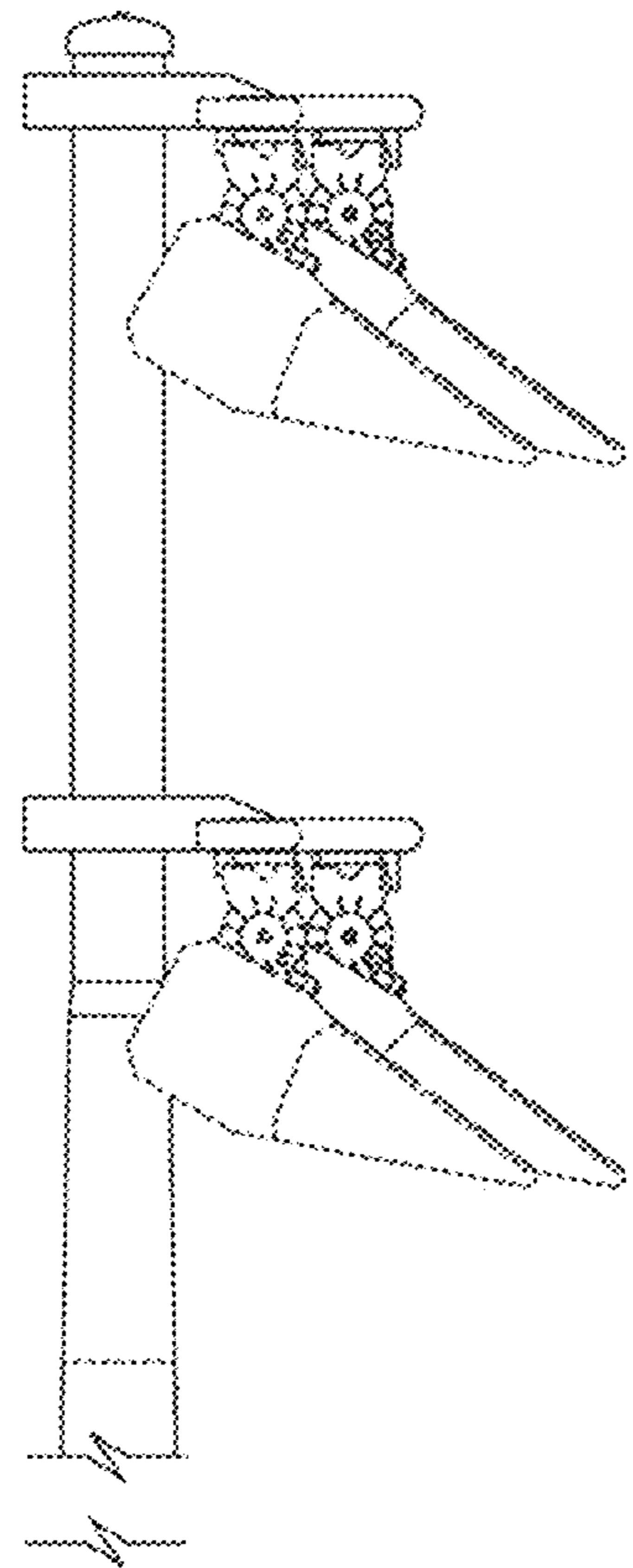


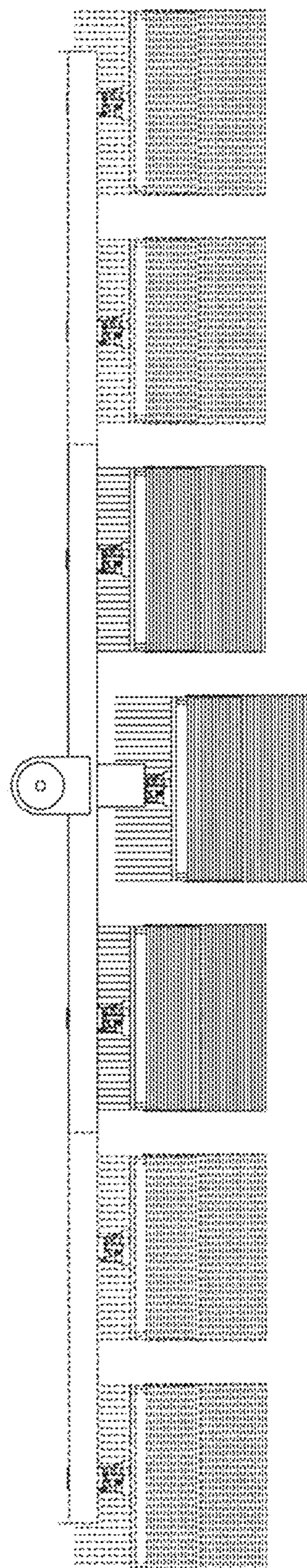
FIG 18



**FIG 19**



**FIG 20**



**FIG 21**

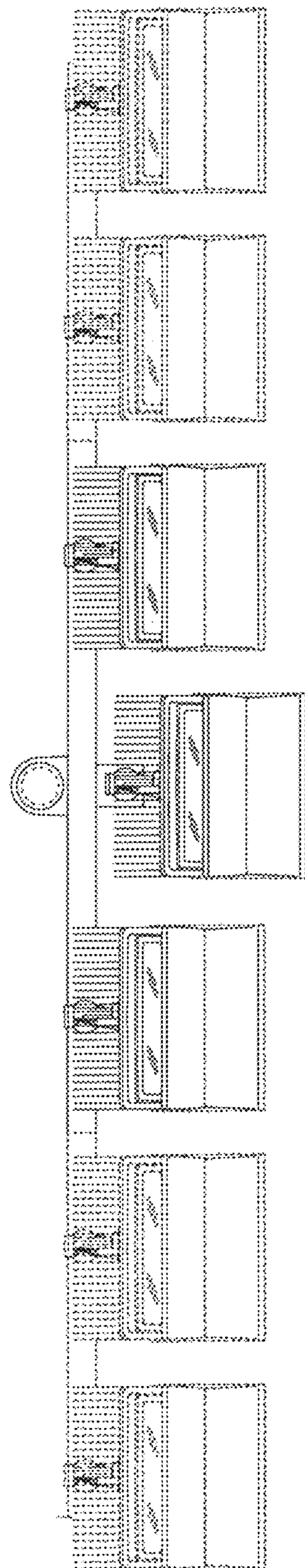
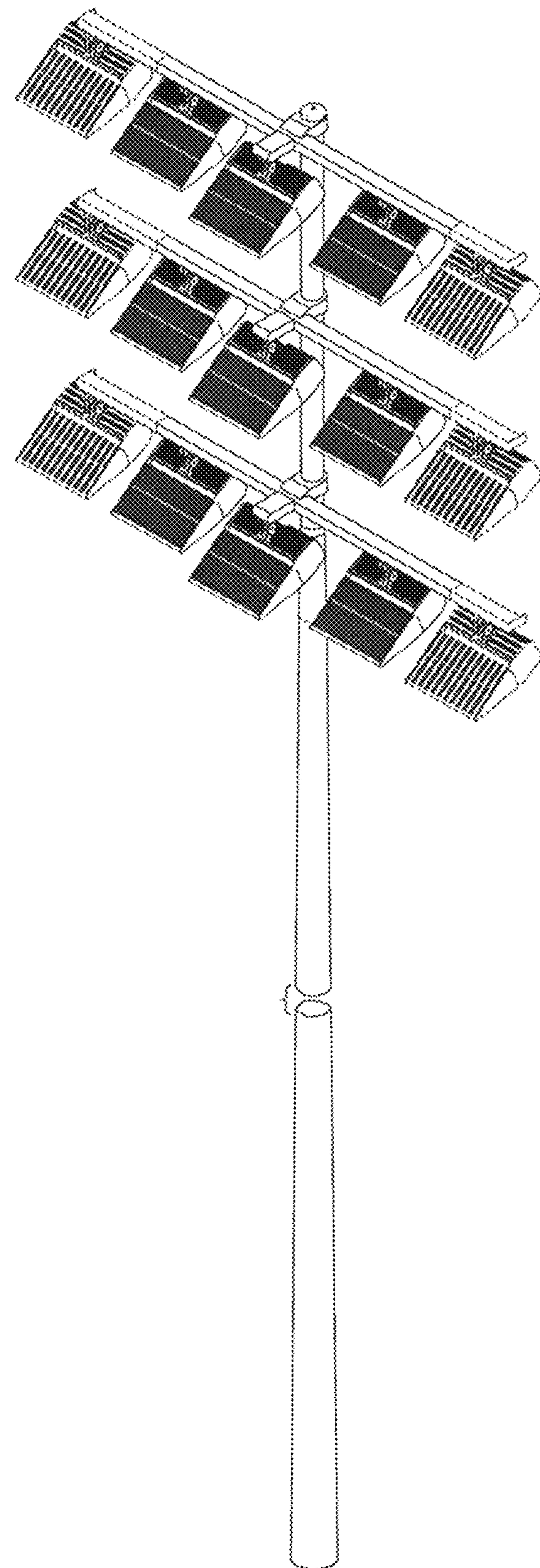


FIG 22



**FIG 23**

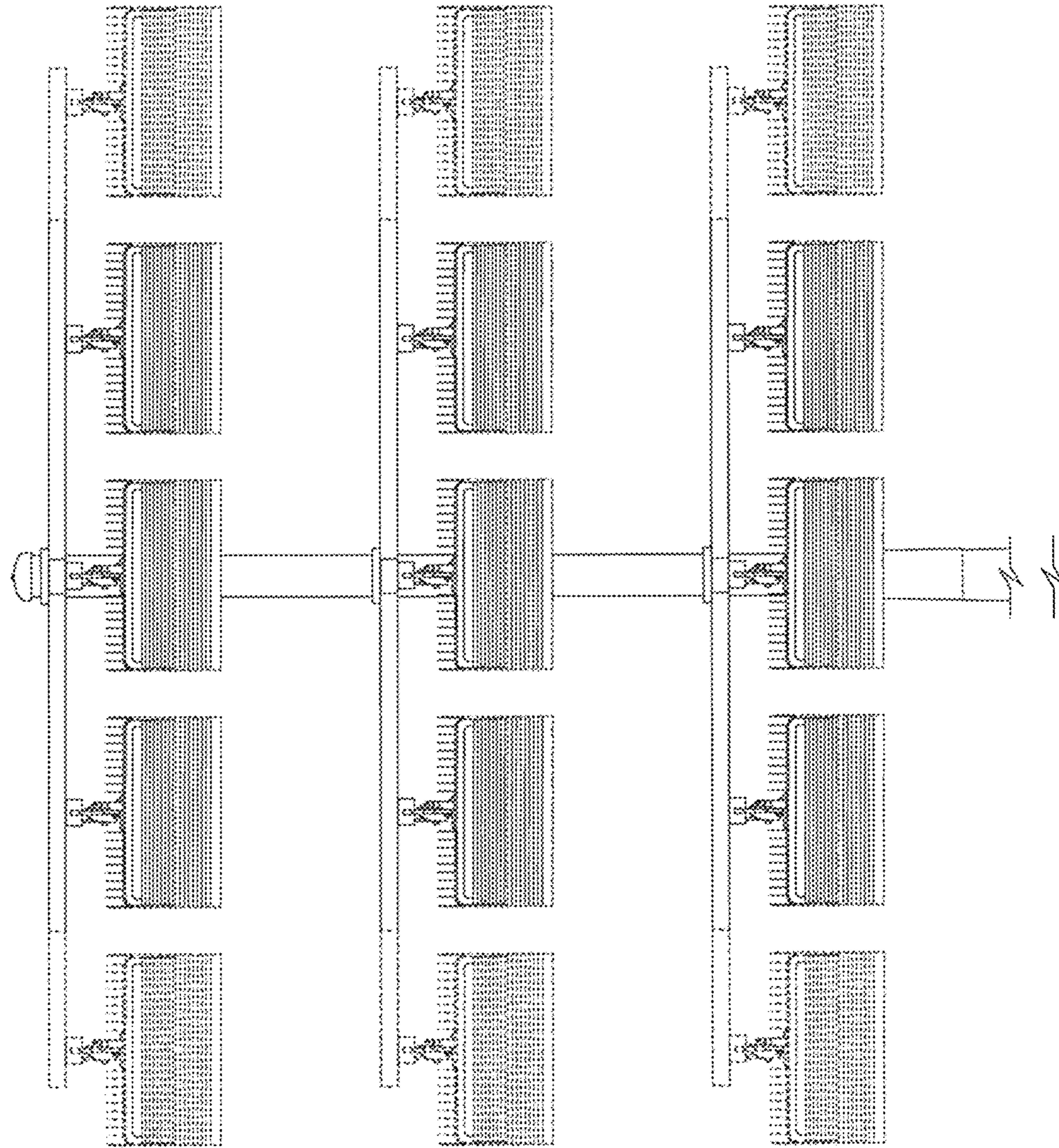


FIG 24

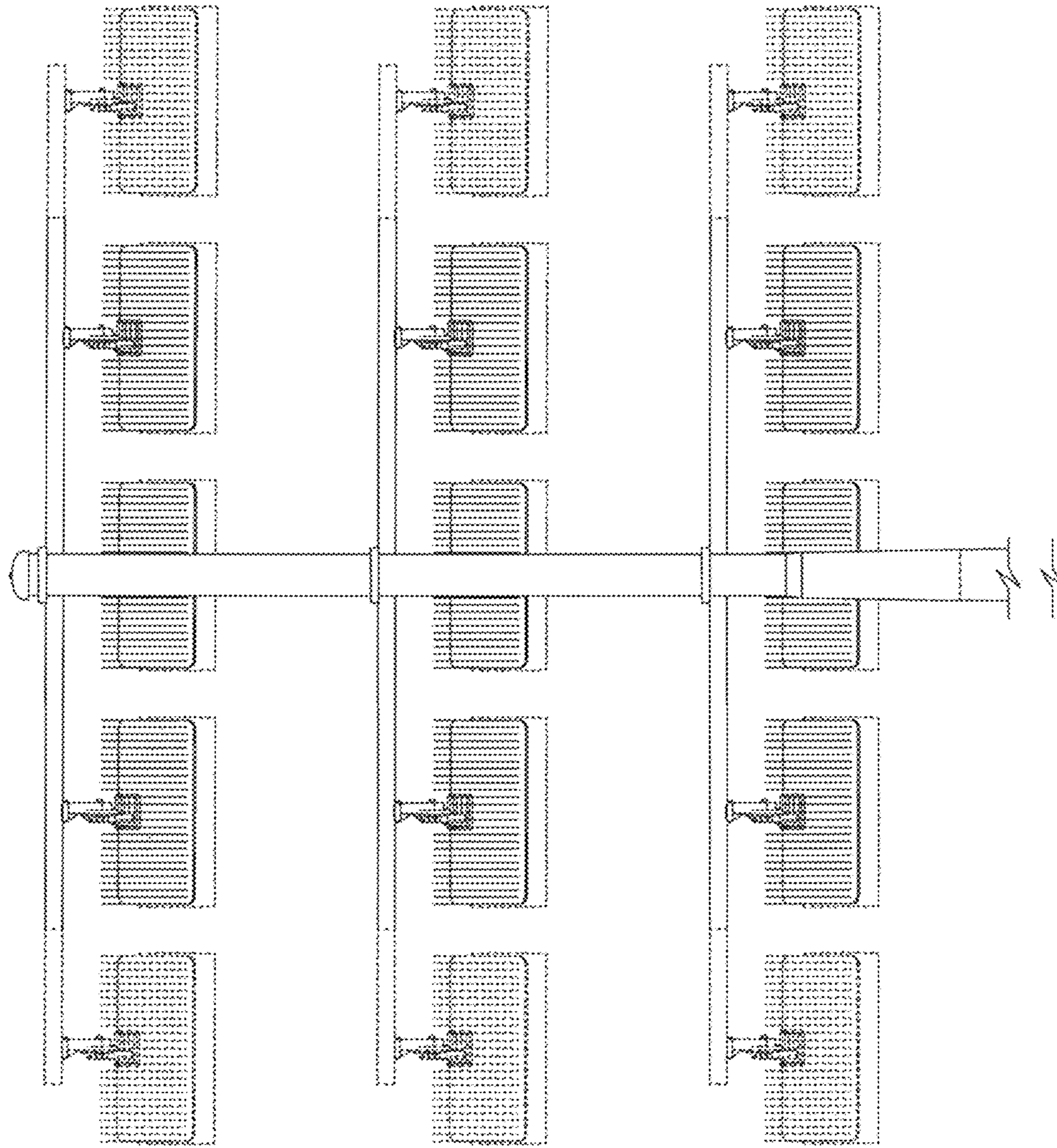
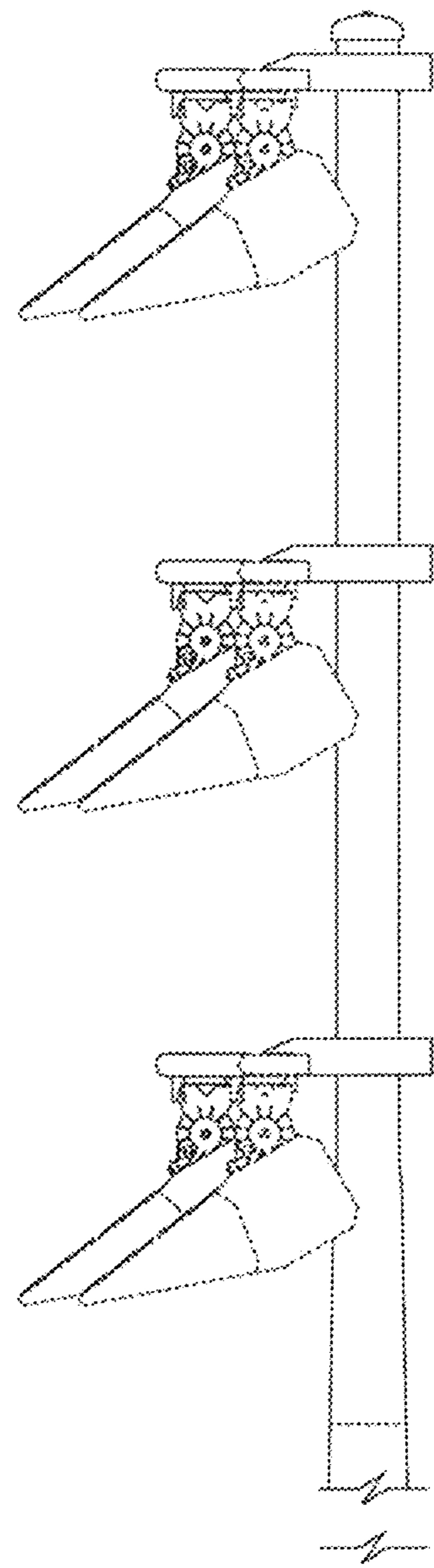


FIG 25



**FIG 26**

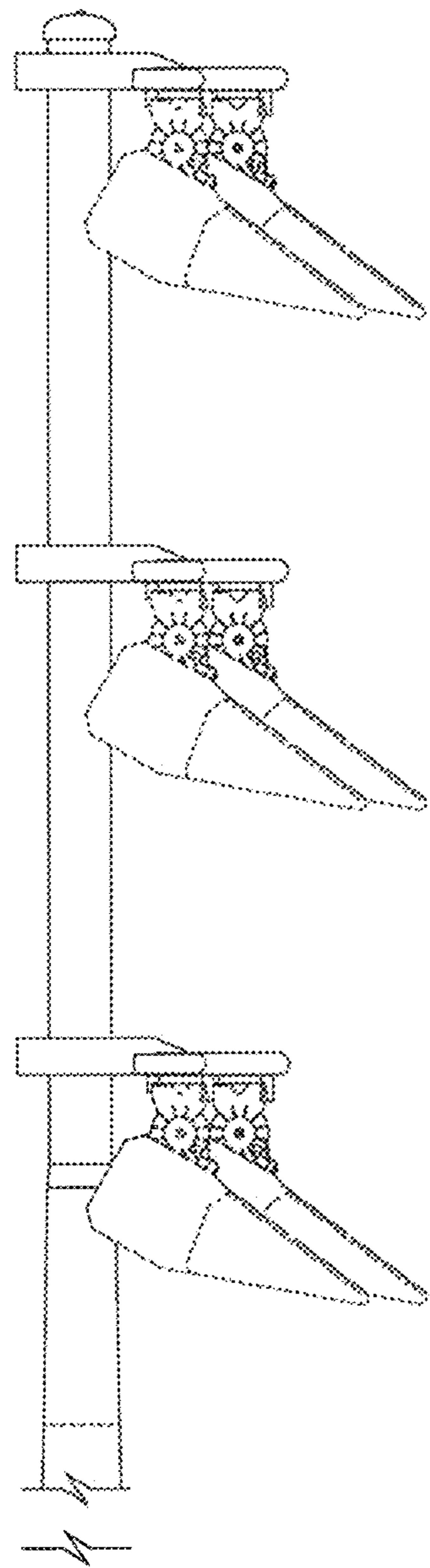
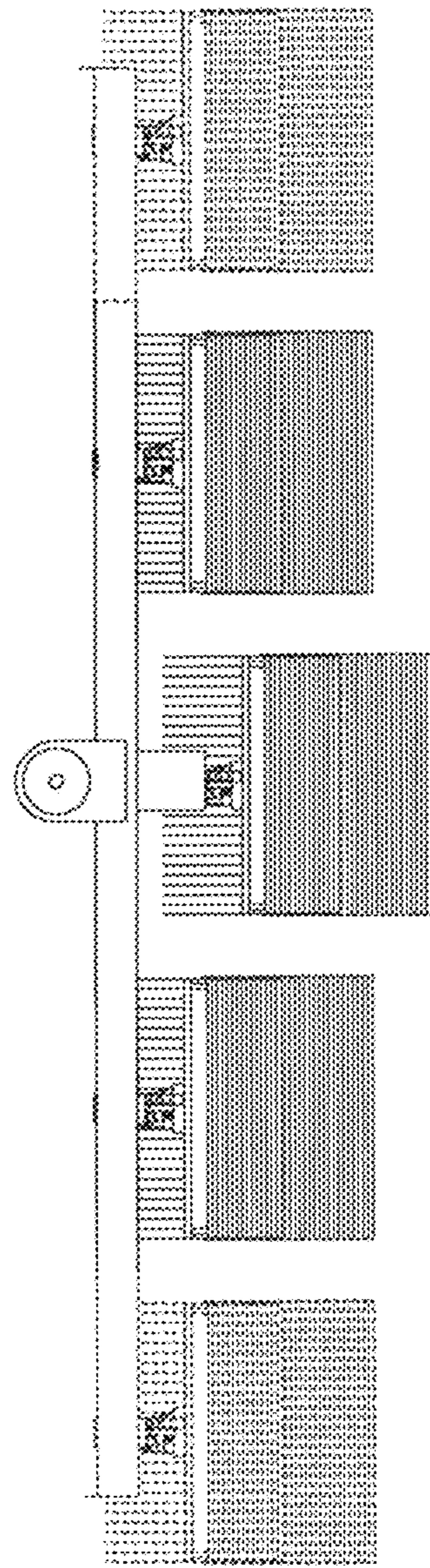
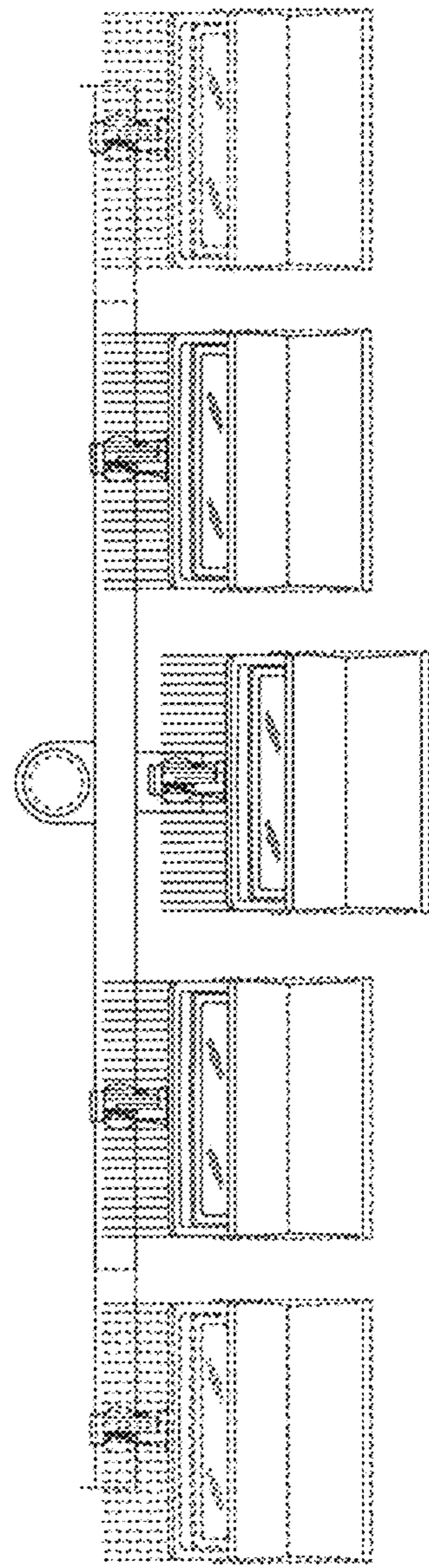


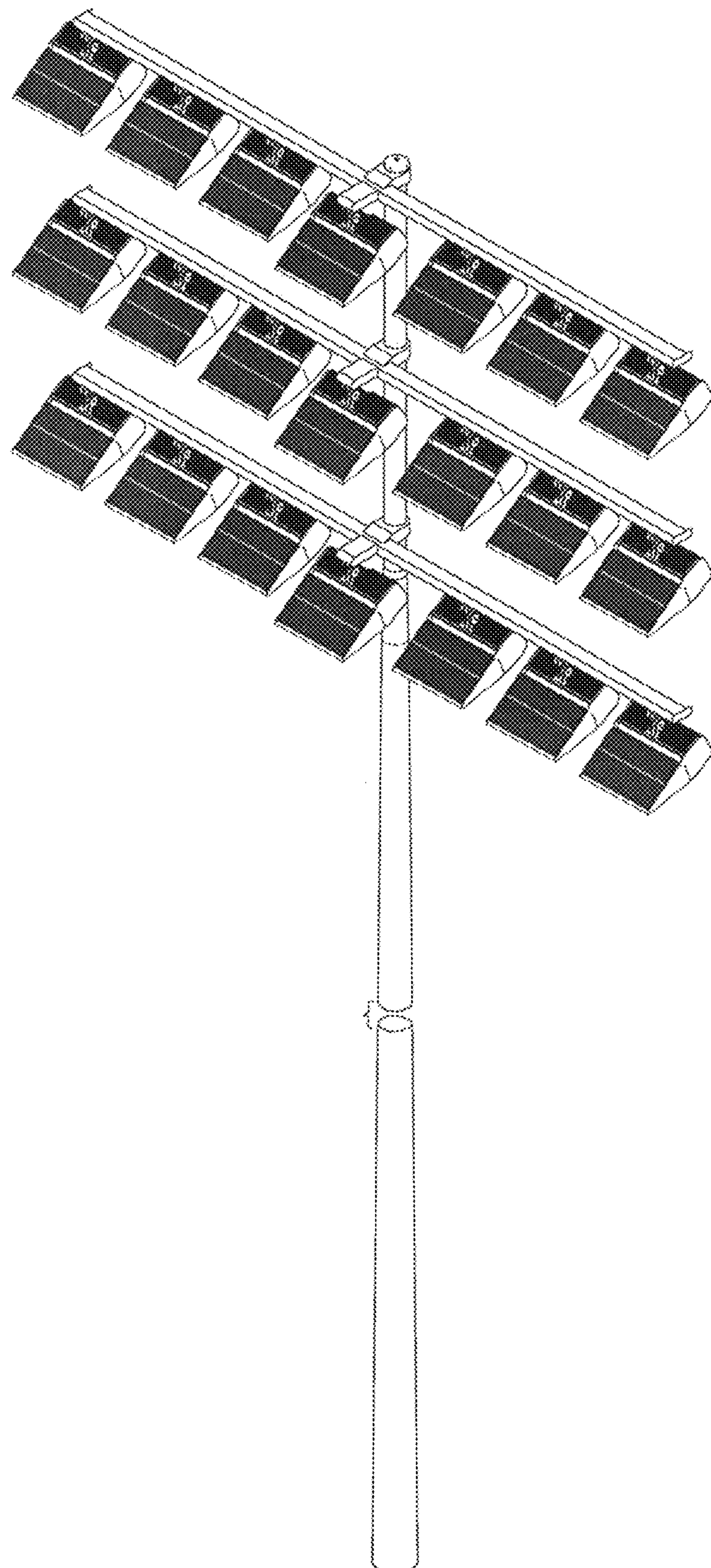
FIG 27



**FIG 28**



**FIG 29**



**FIG 30**

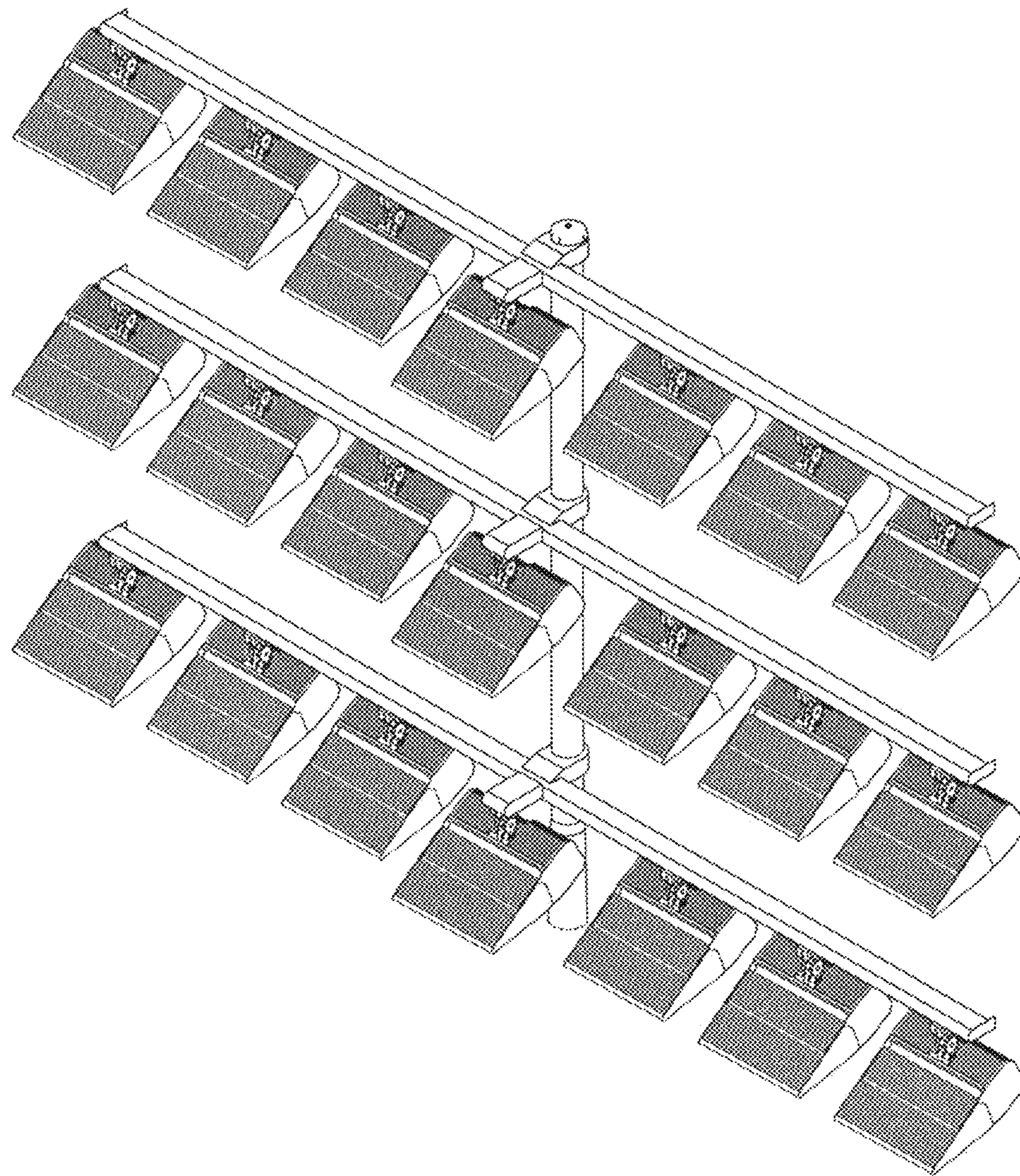


FIG 31

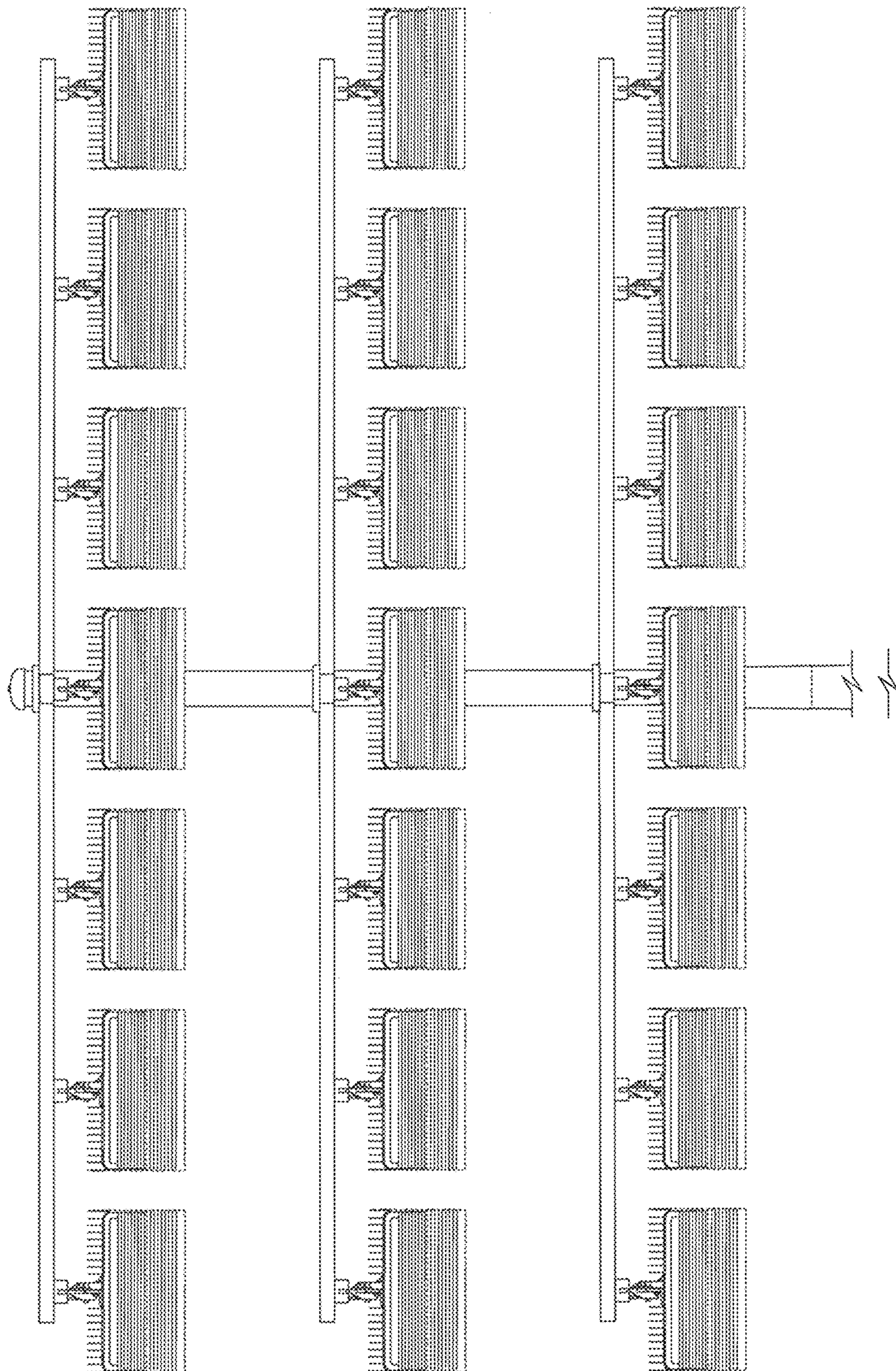


FIG 32

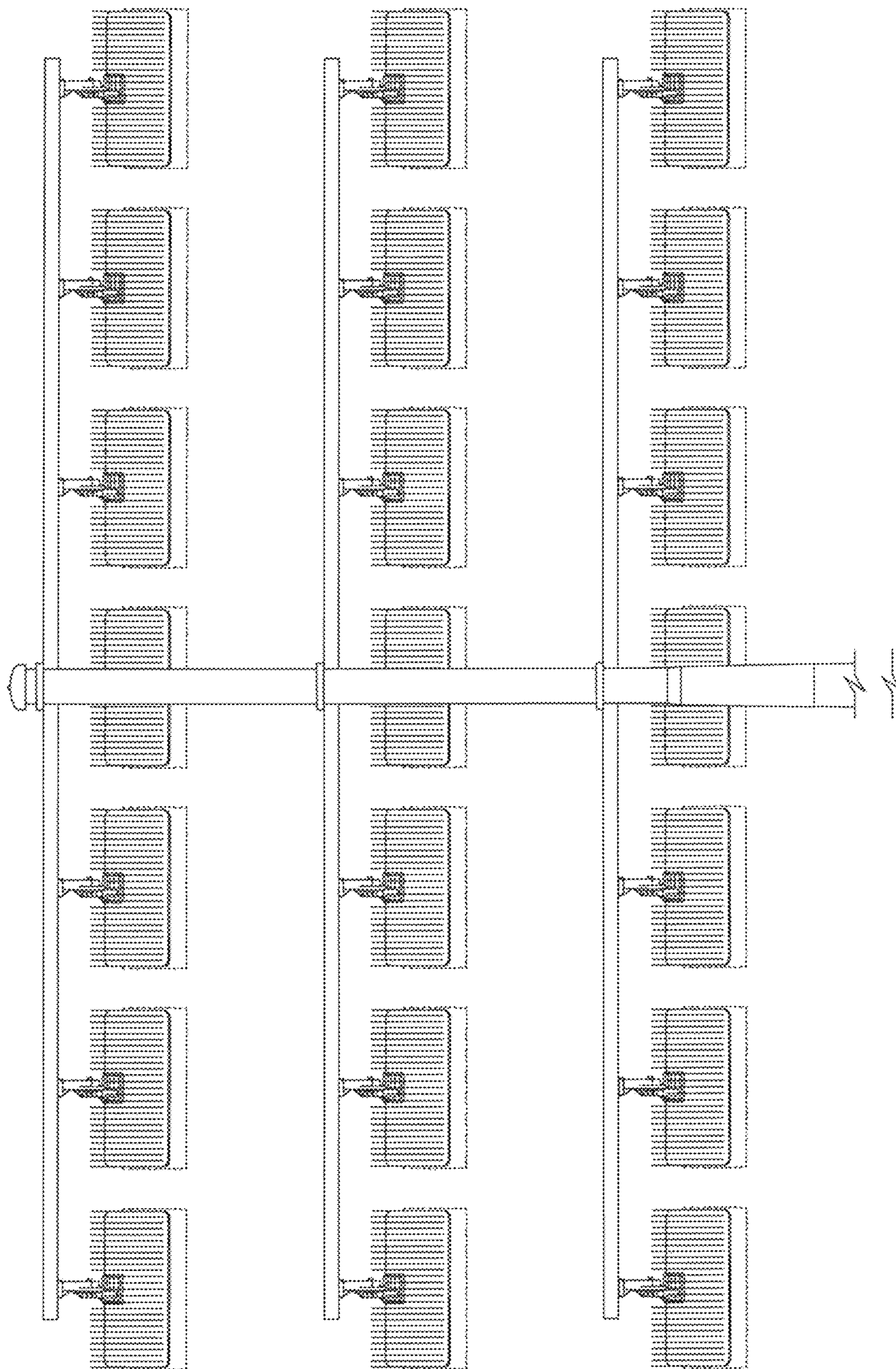
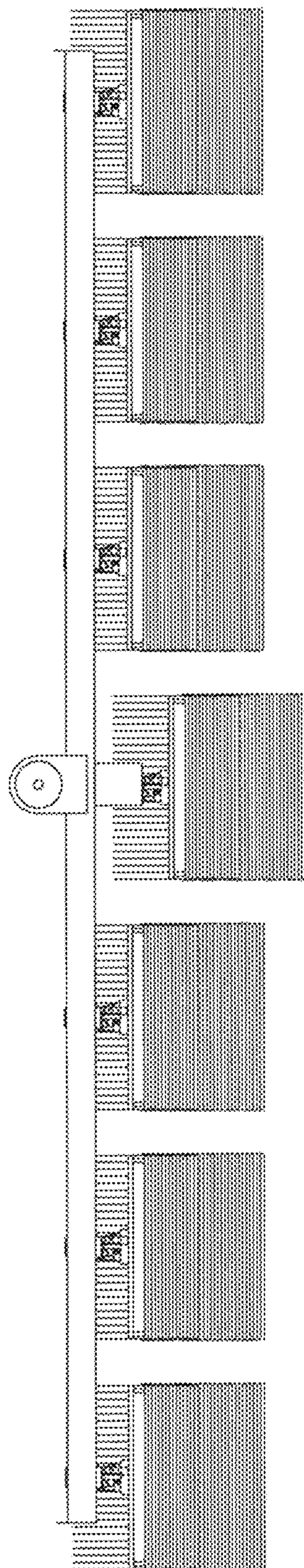
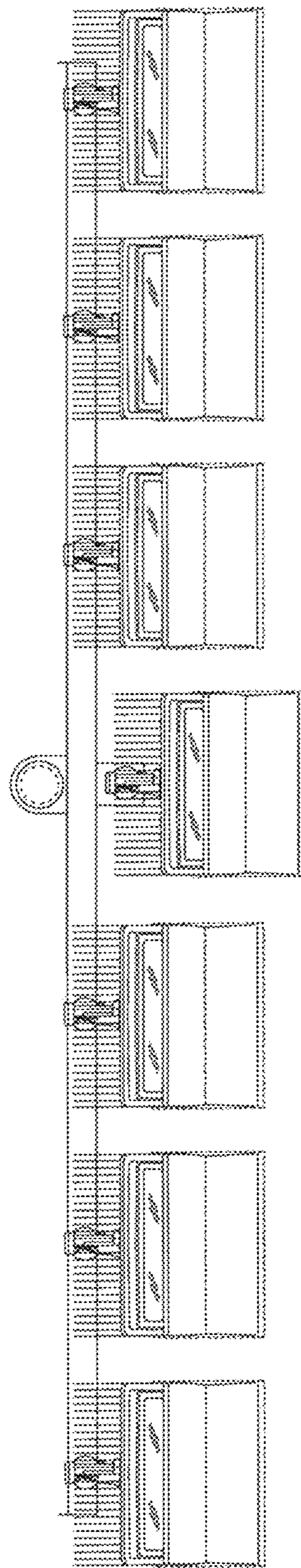


FIG 33



**FIG 34**



**FIG 35**

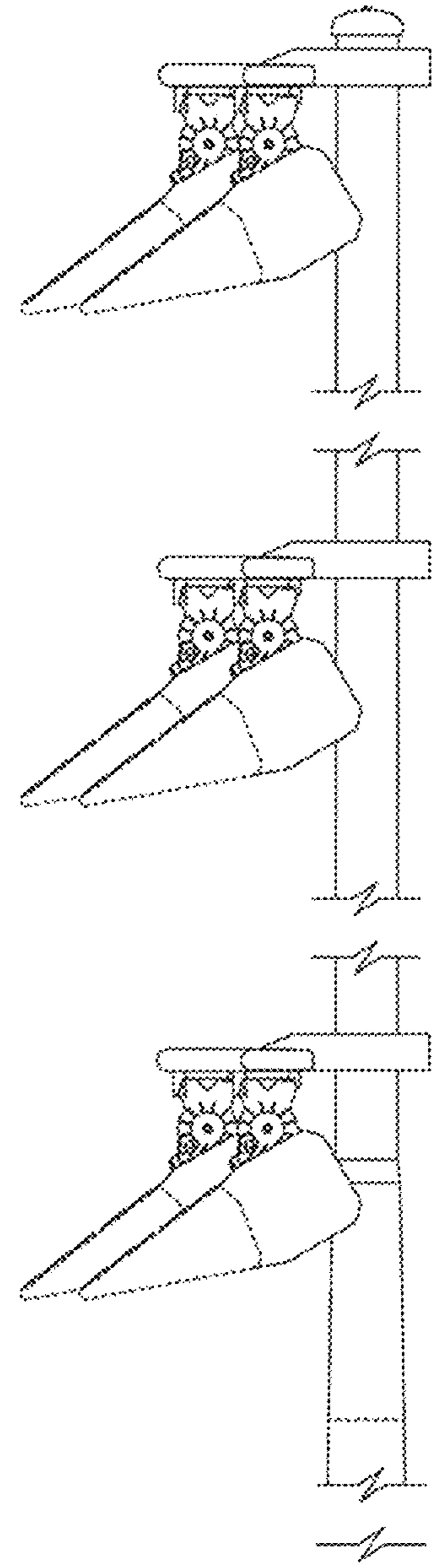


FIG 36

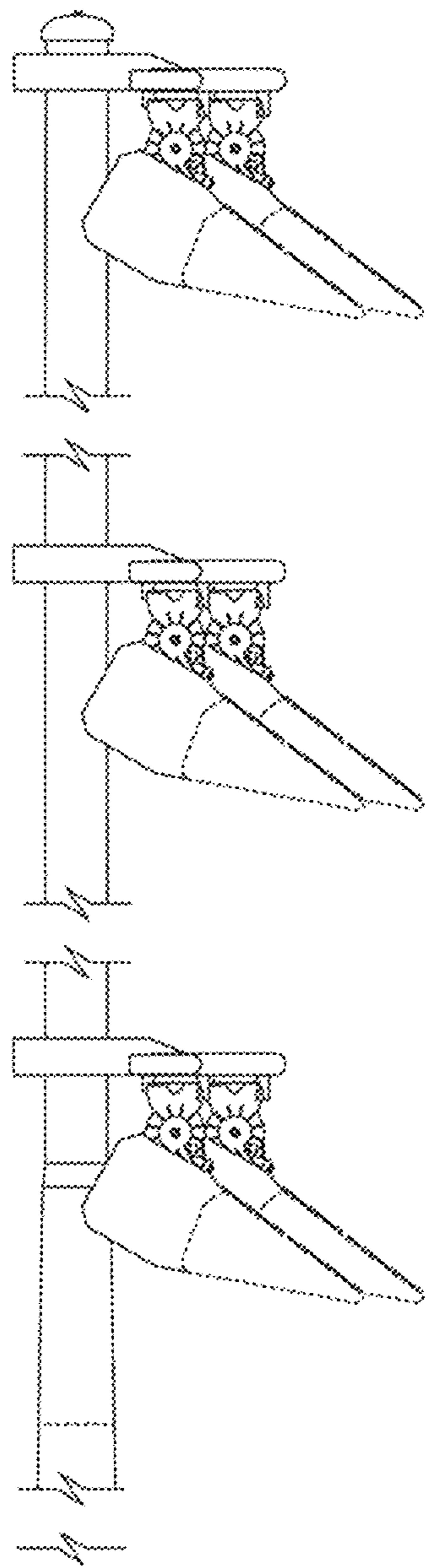
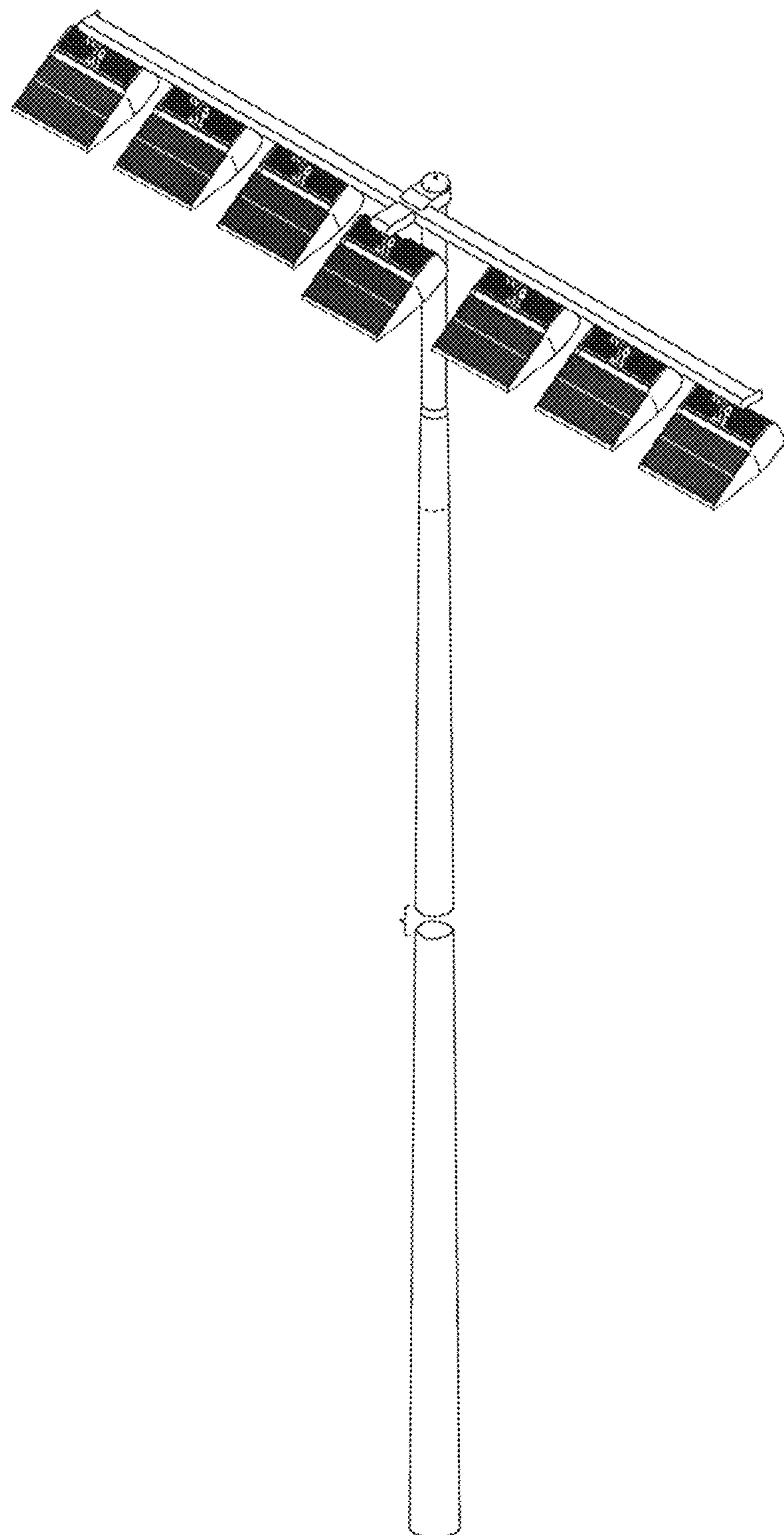
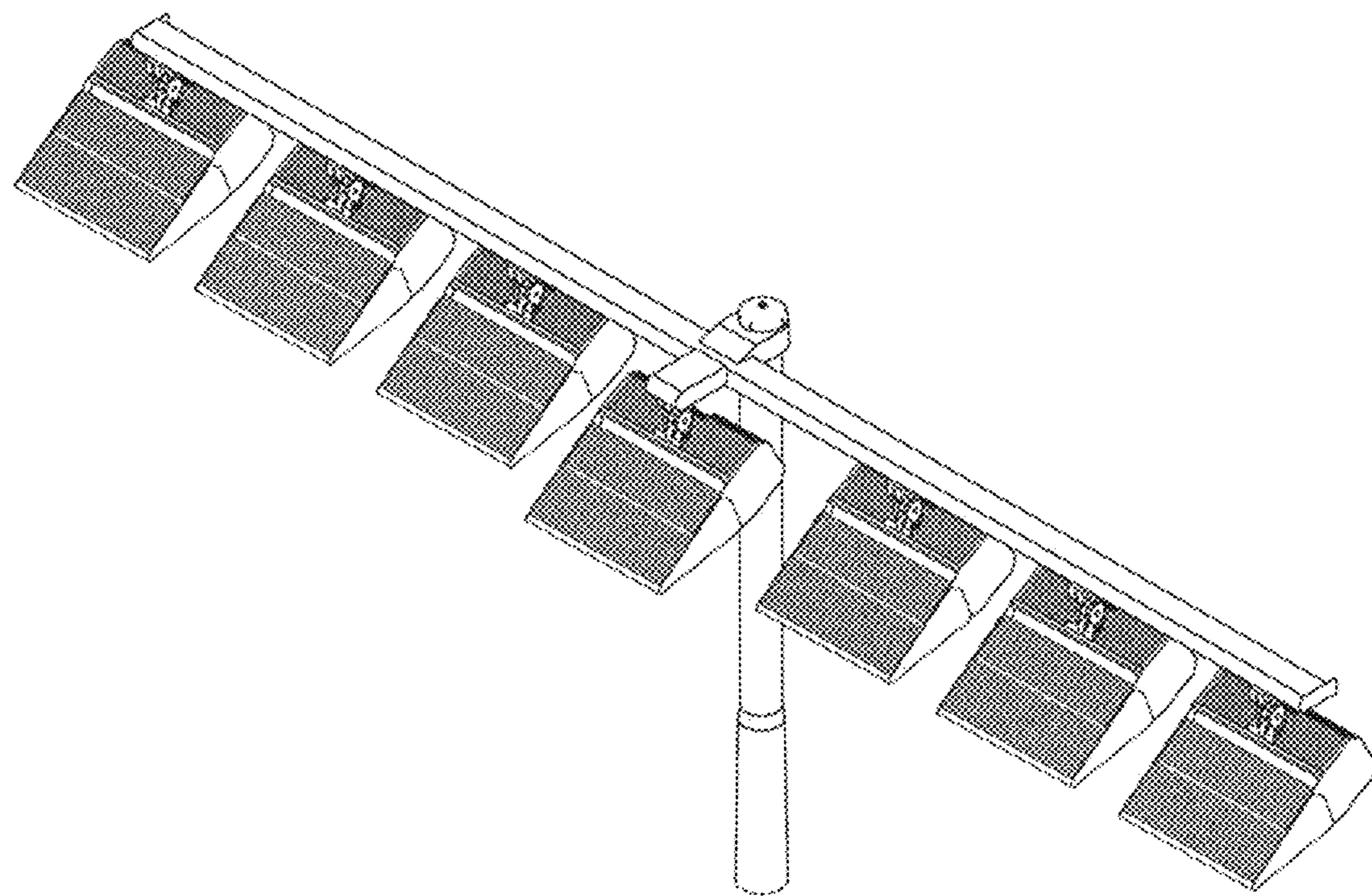


FIG 37



**FIG 38**



**FIG 39**

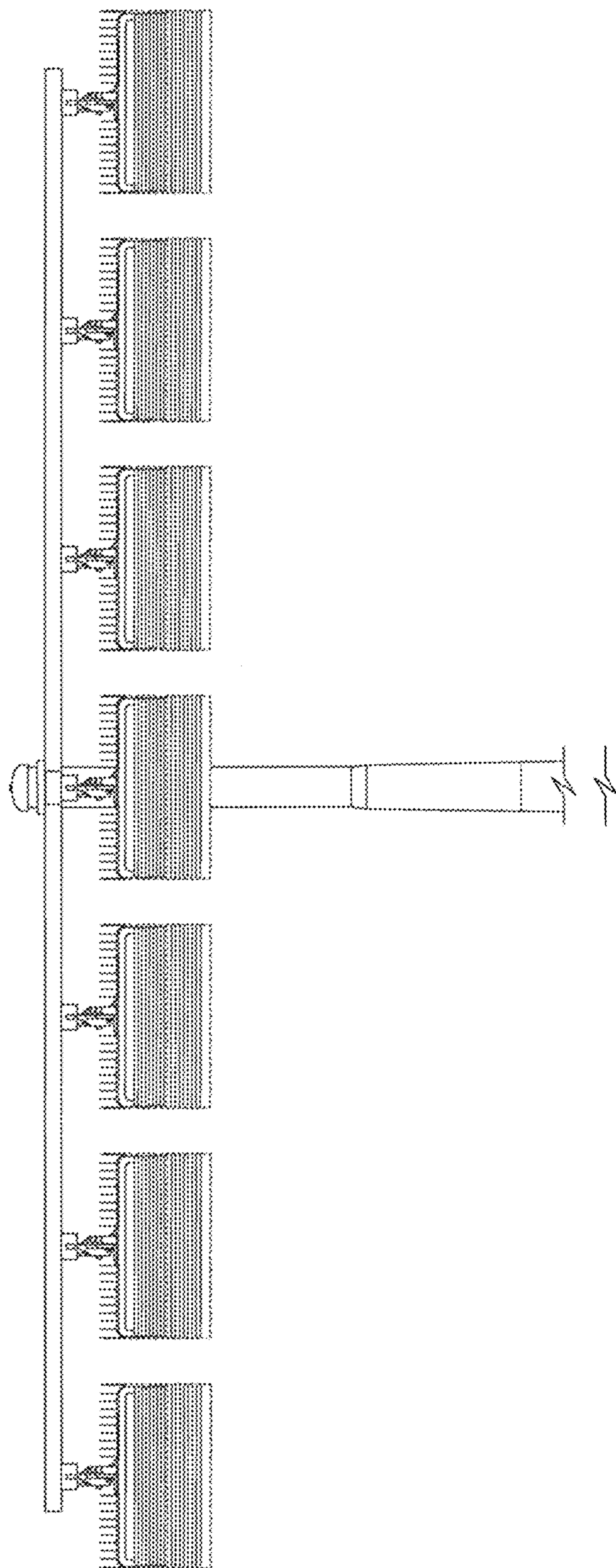


FIG 40

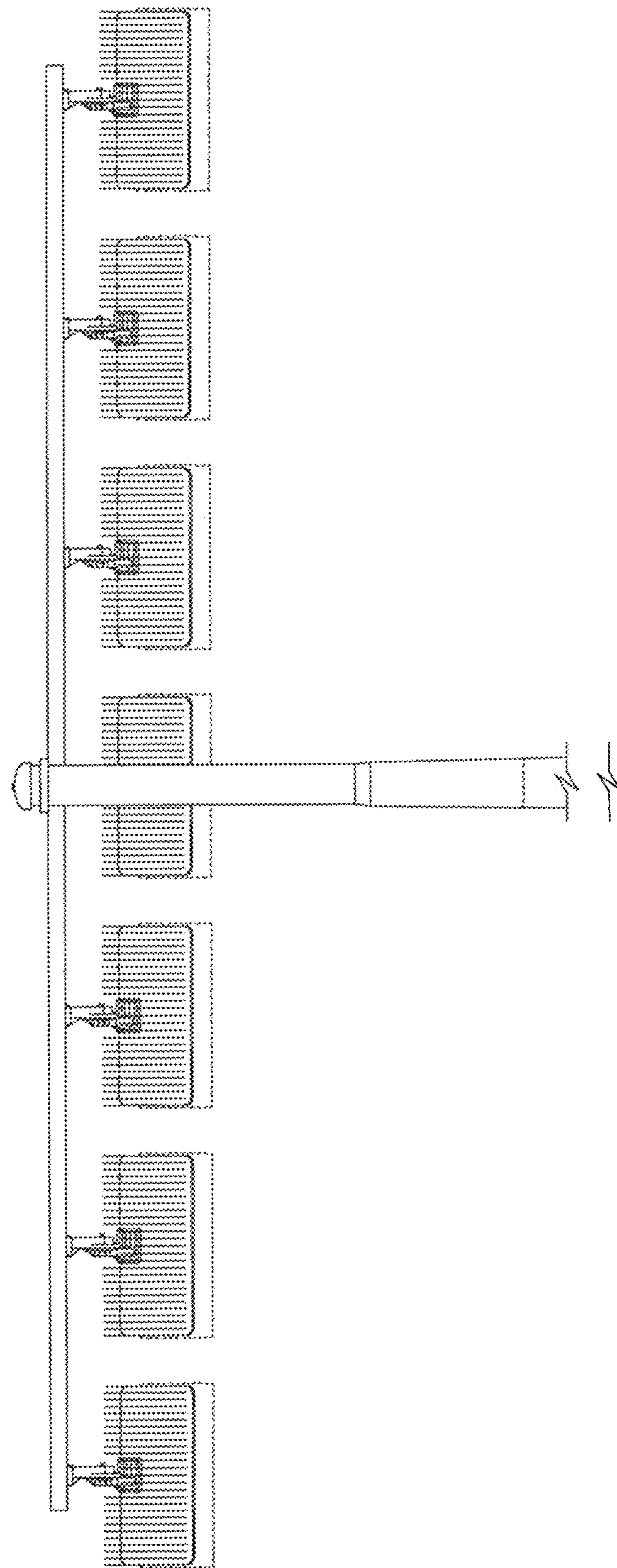


FIG 41

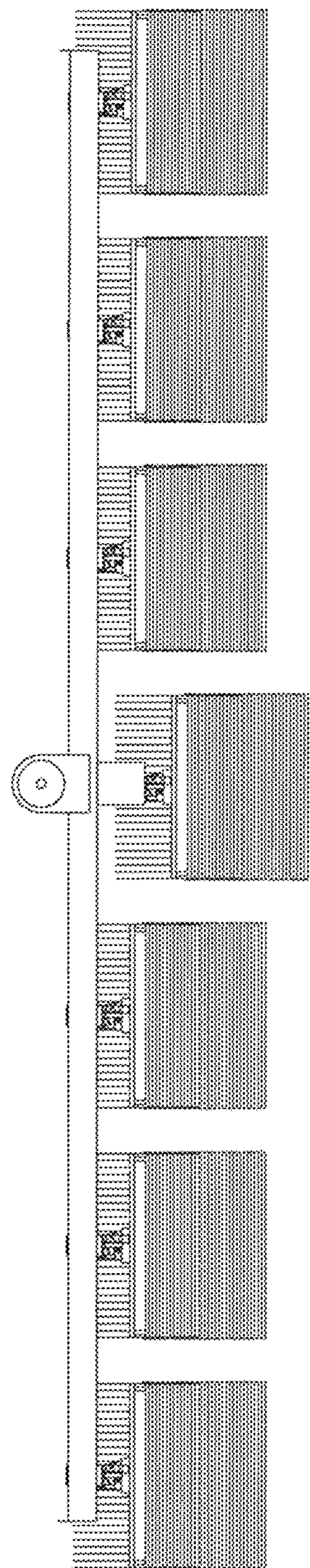


FIG 42

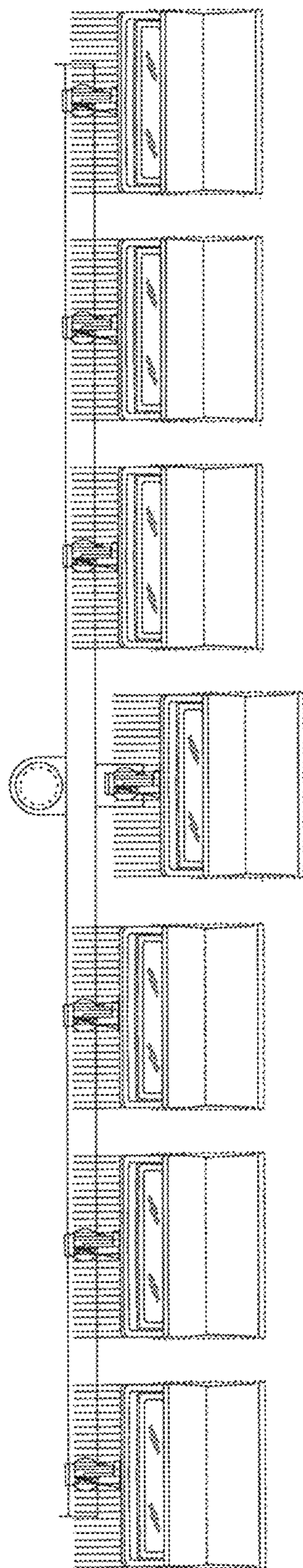
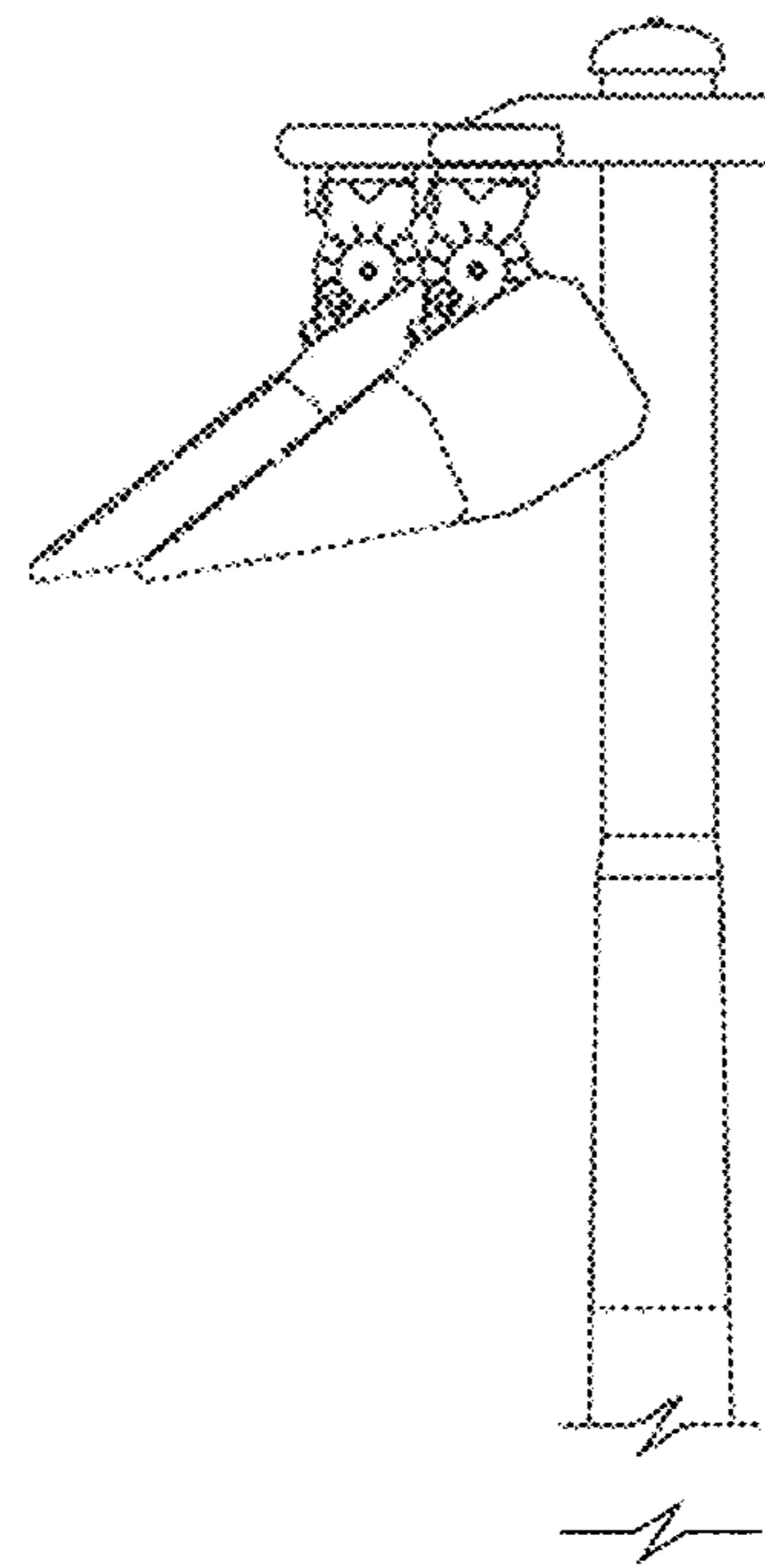
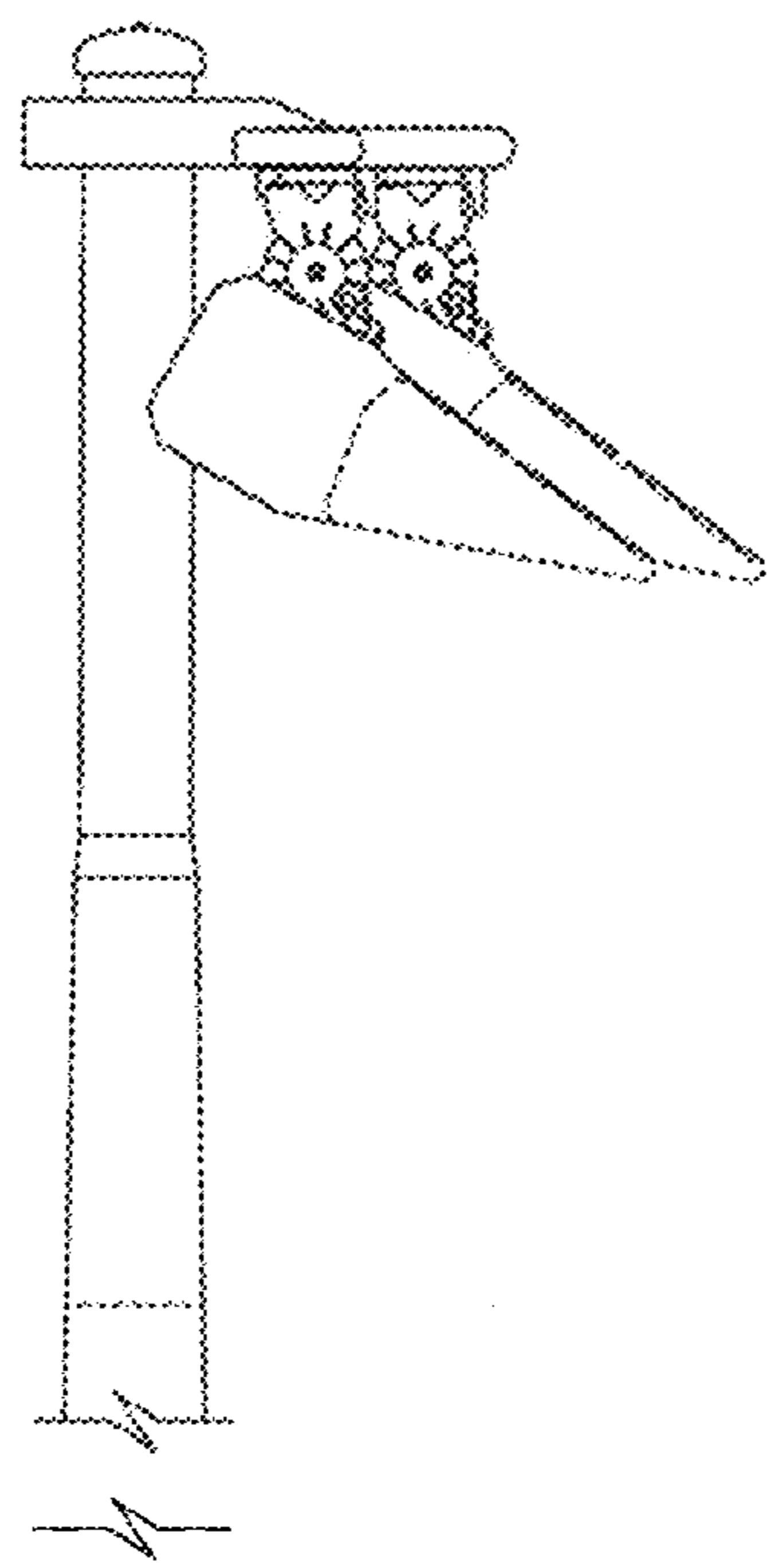


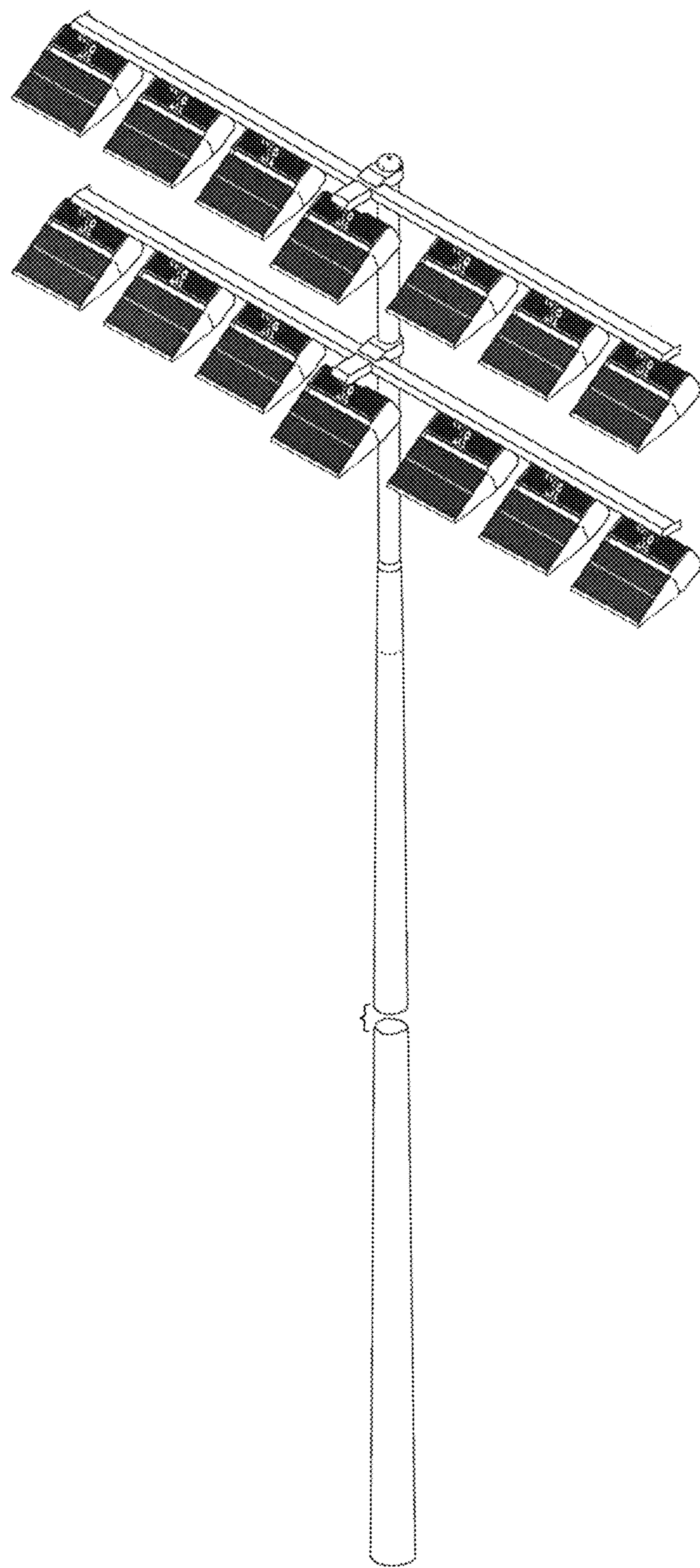
FIG 43



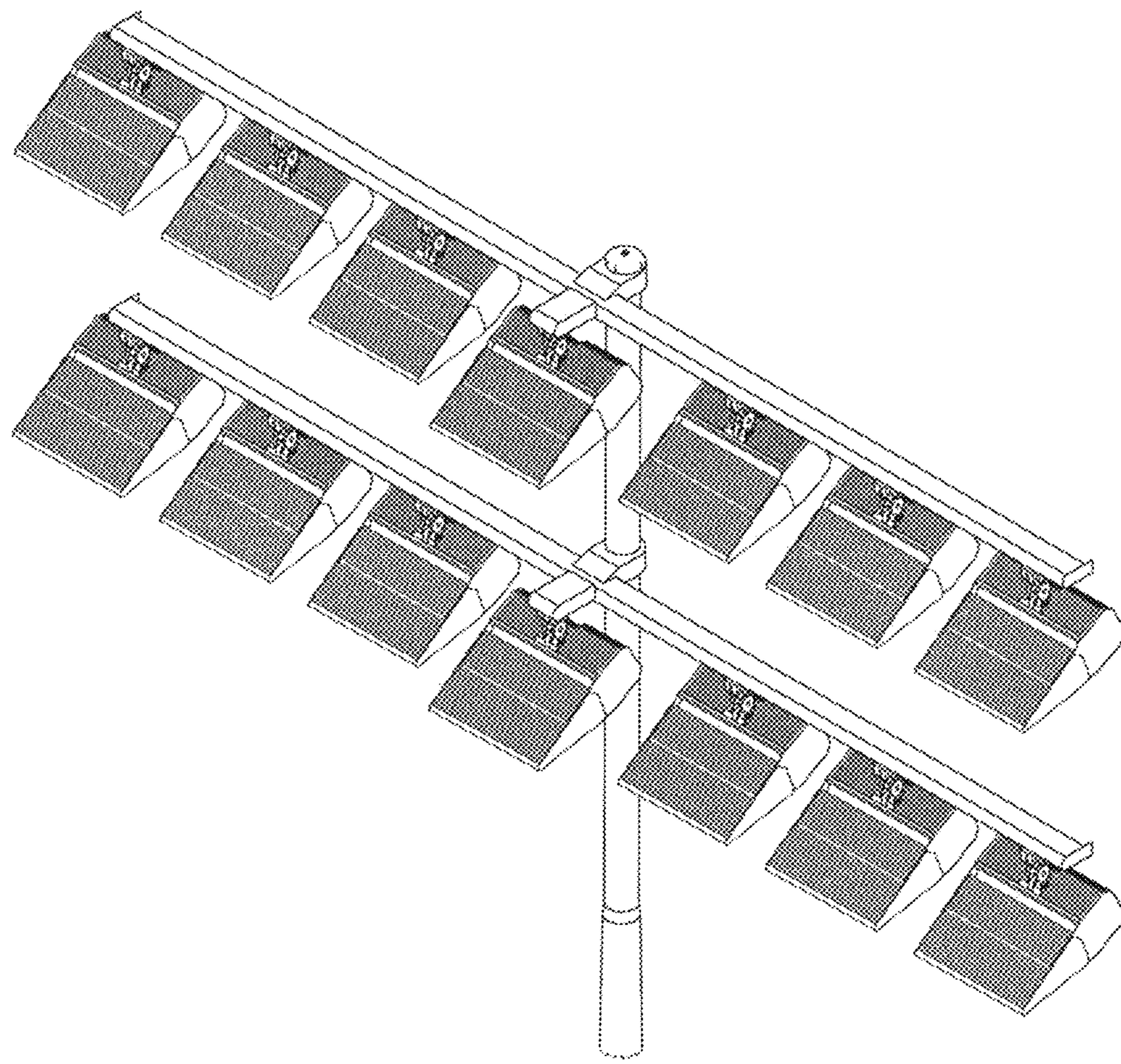
**FIG 44**



**FIG 45**



**FIG 46**



**FIG 47**

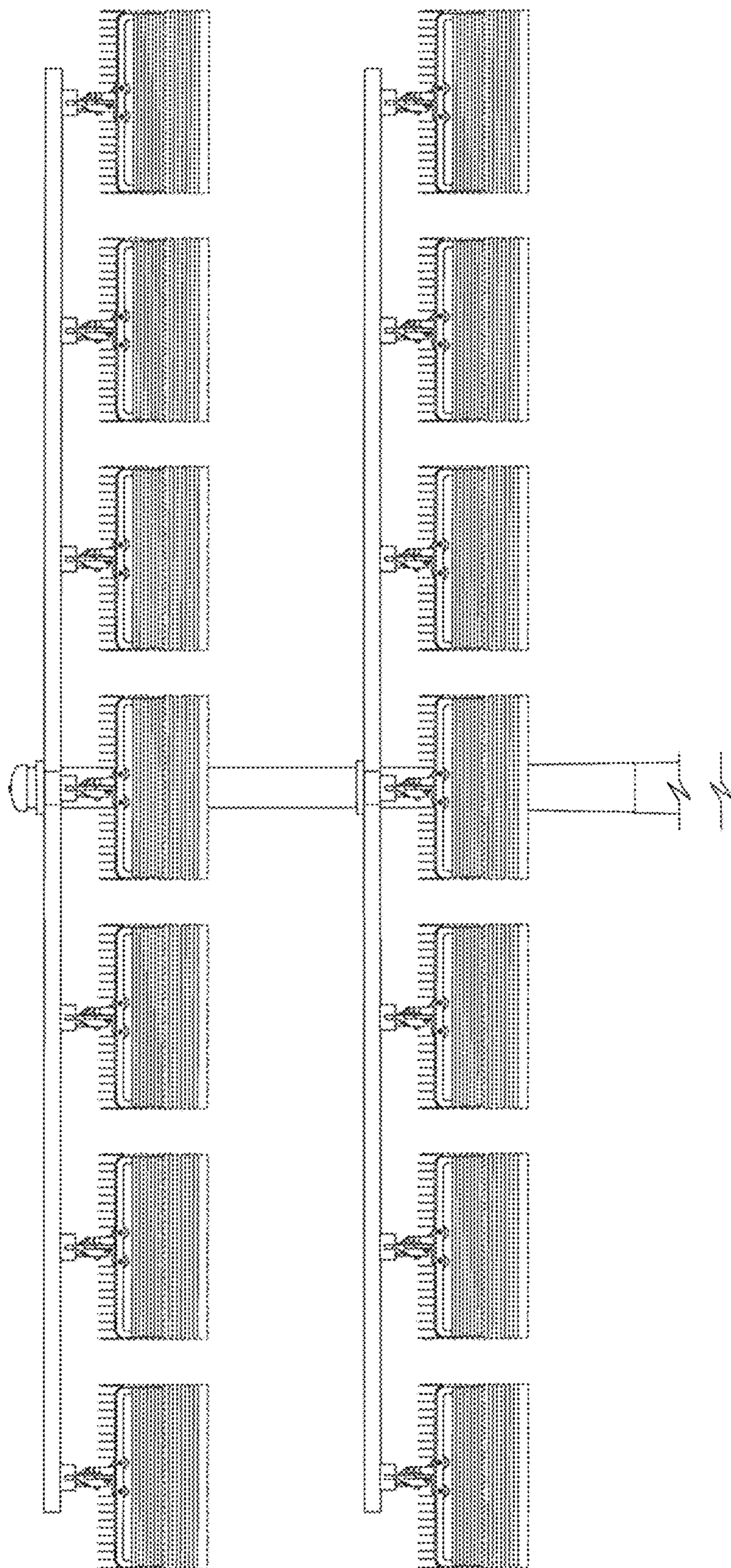


FIG 48

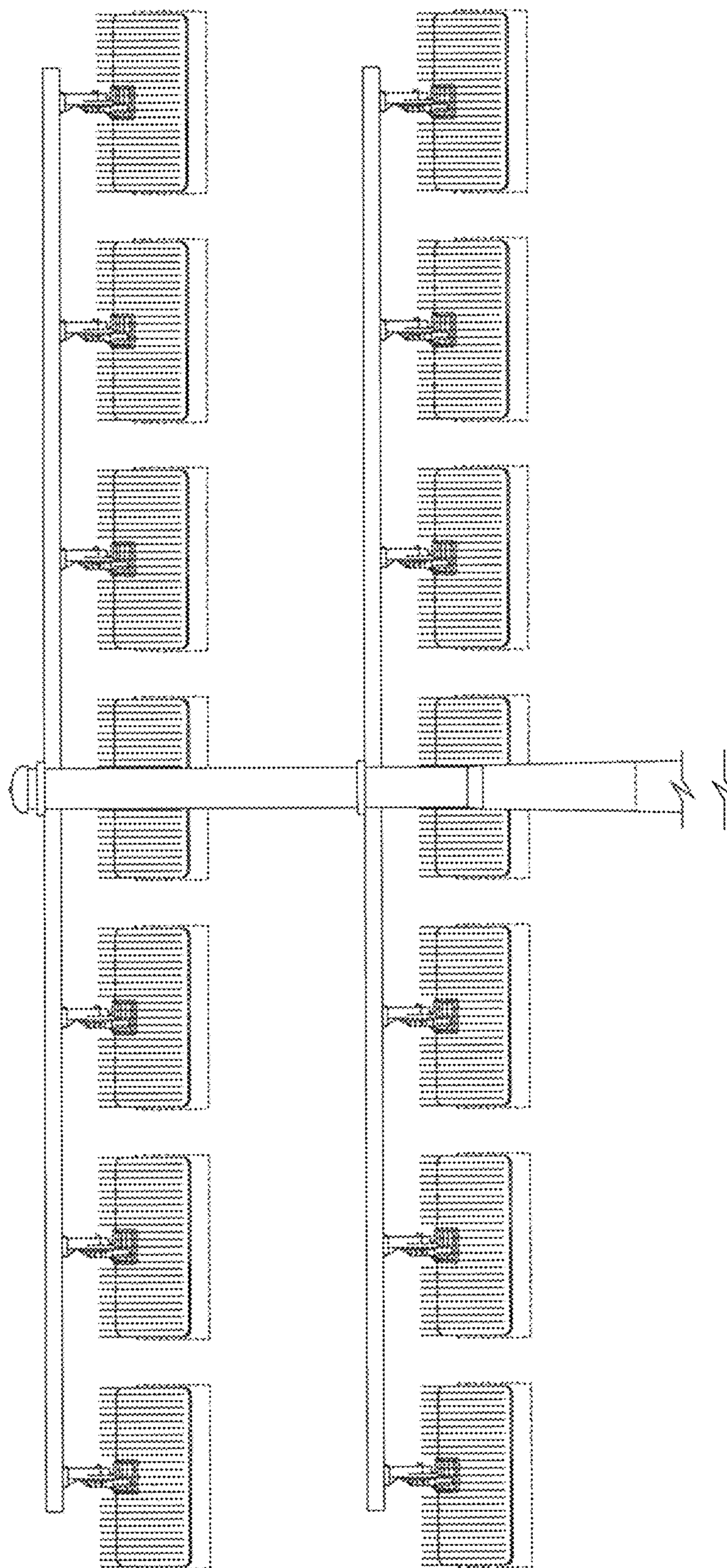
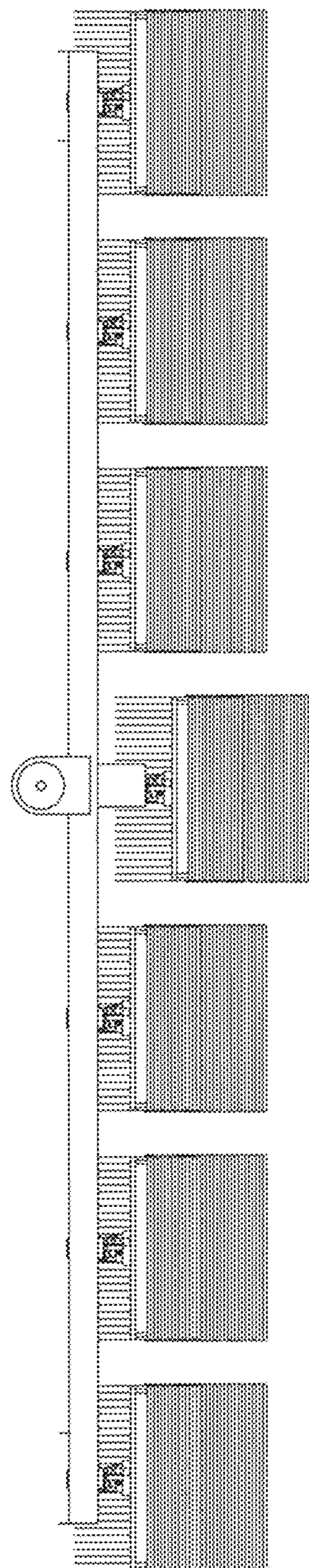
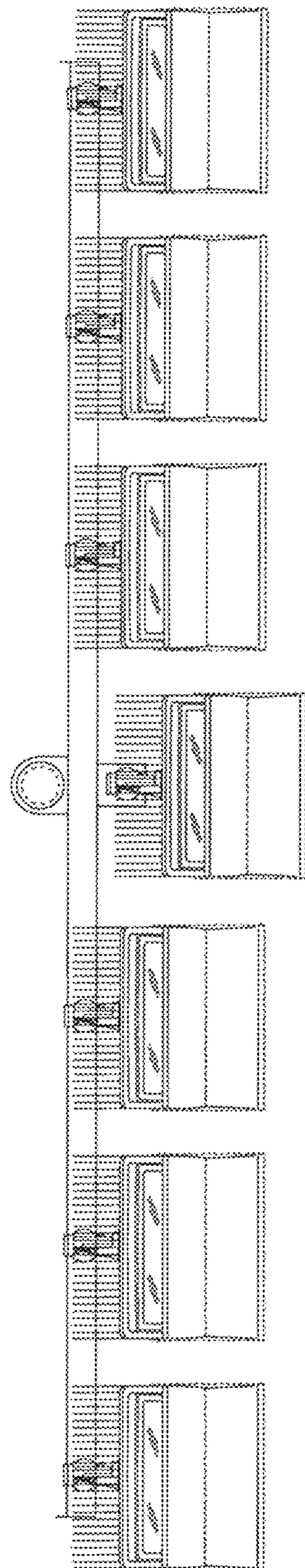


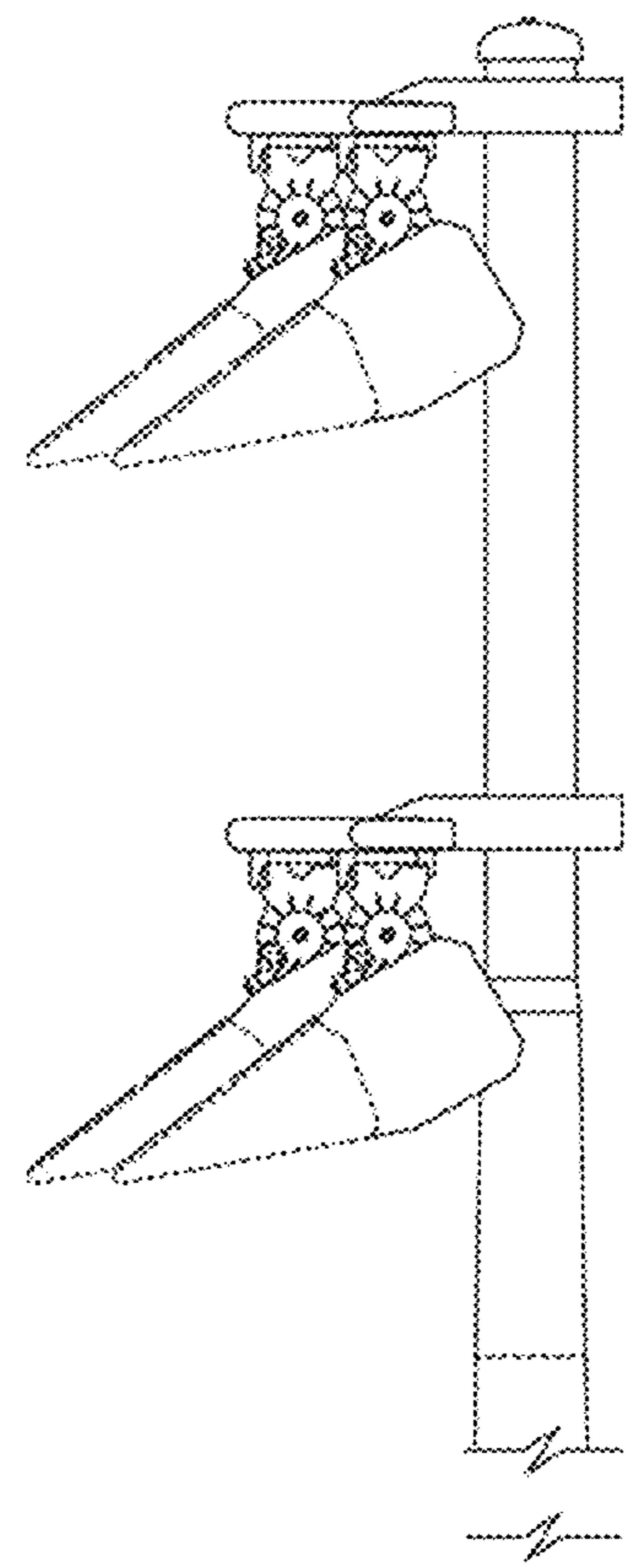
FIG 49



**FIG 50**



**FIG 51**



**FIG 52**

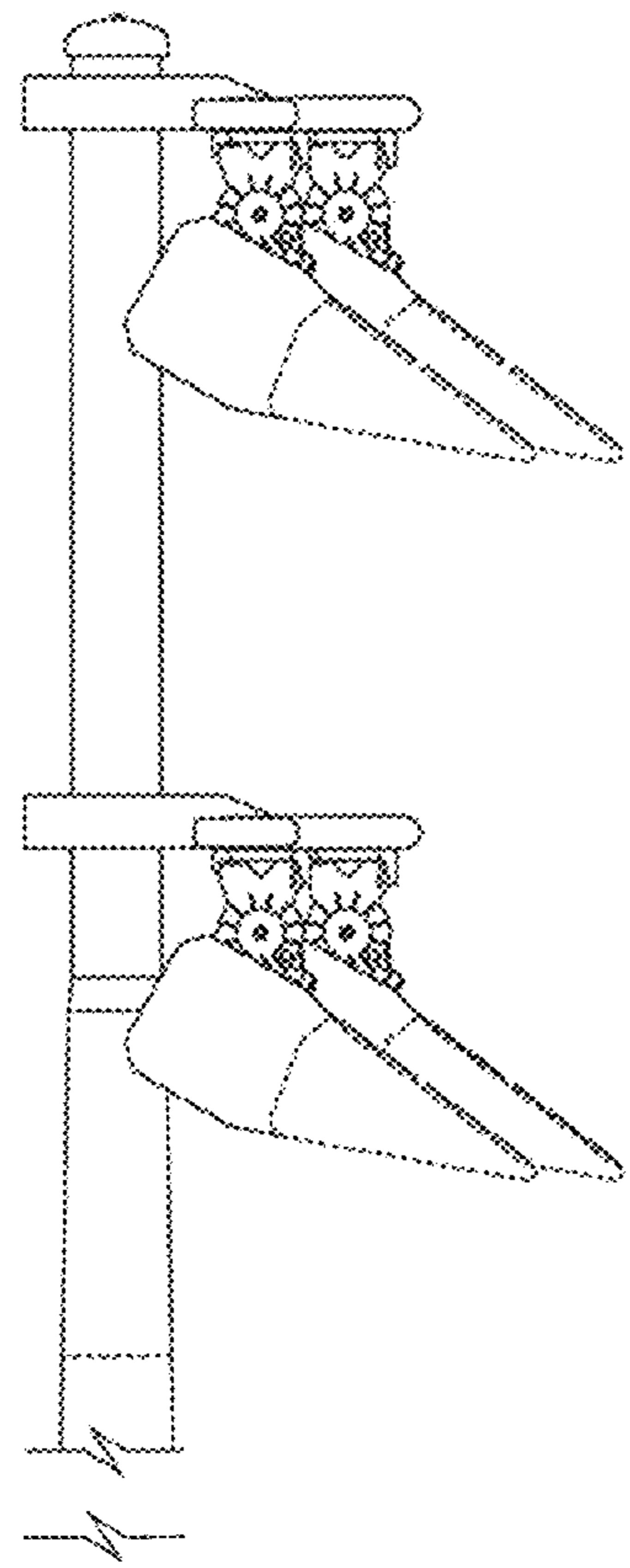
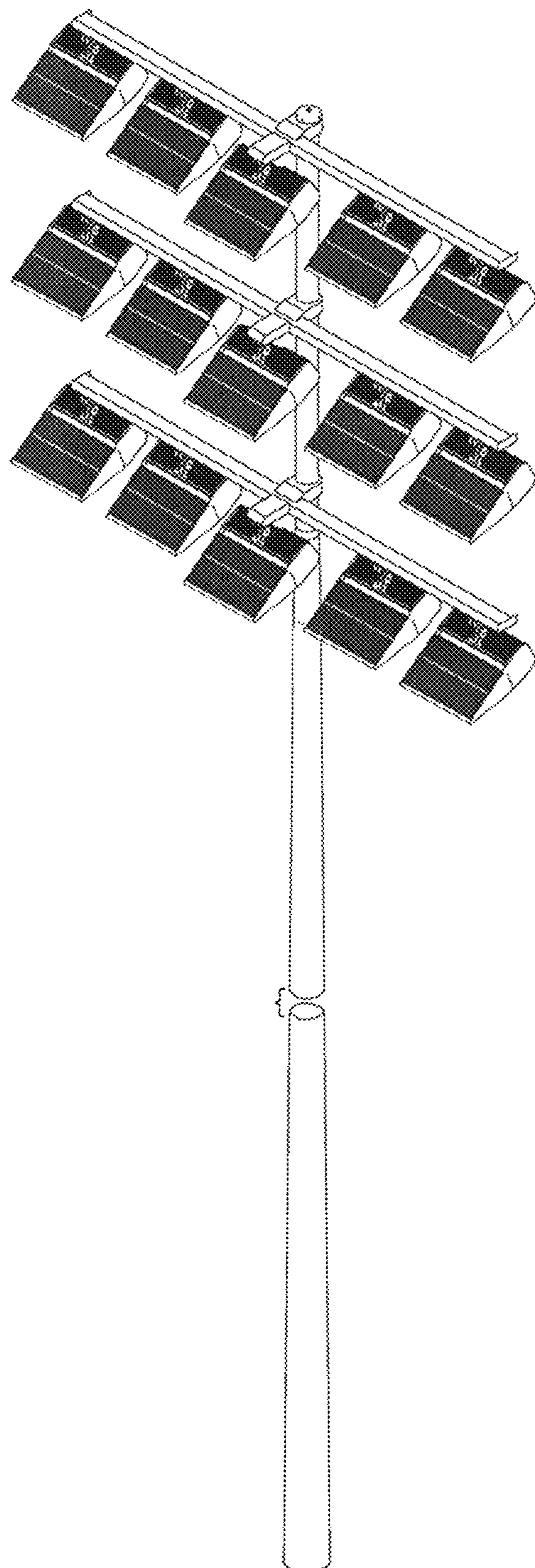


FIG 53



**FIG 54**

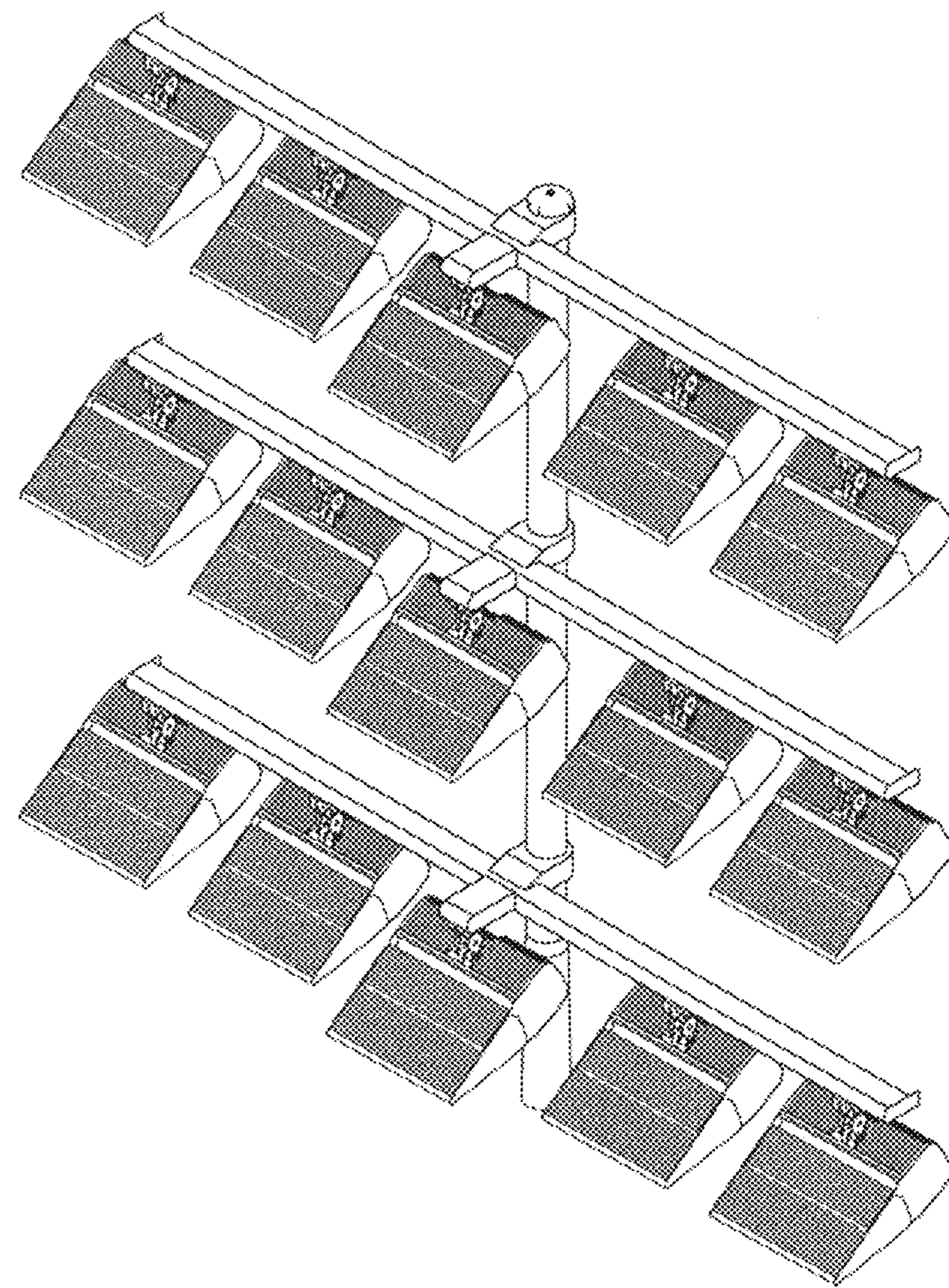


FIG 55

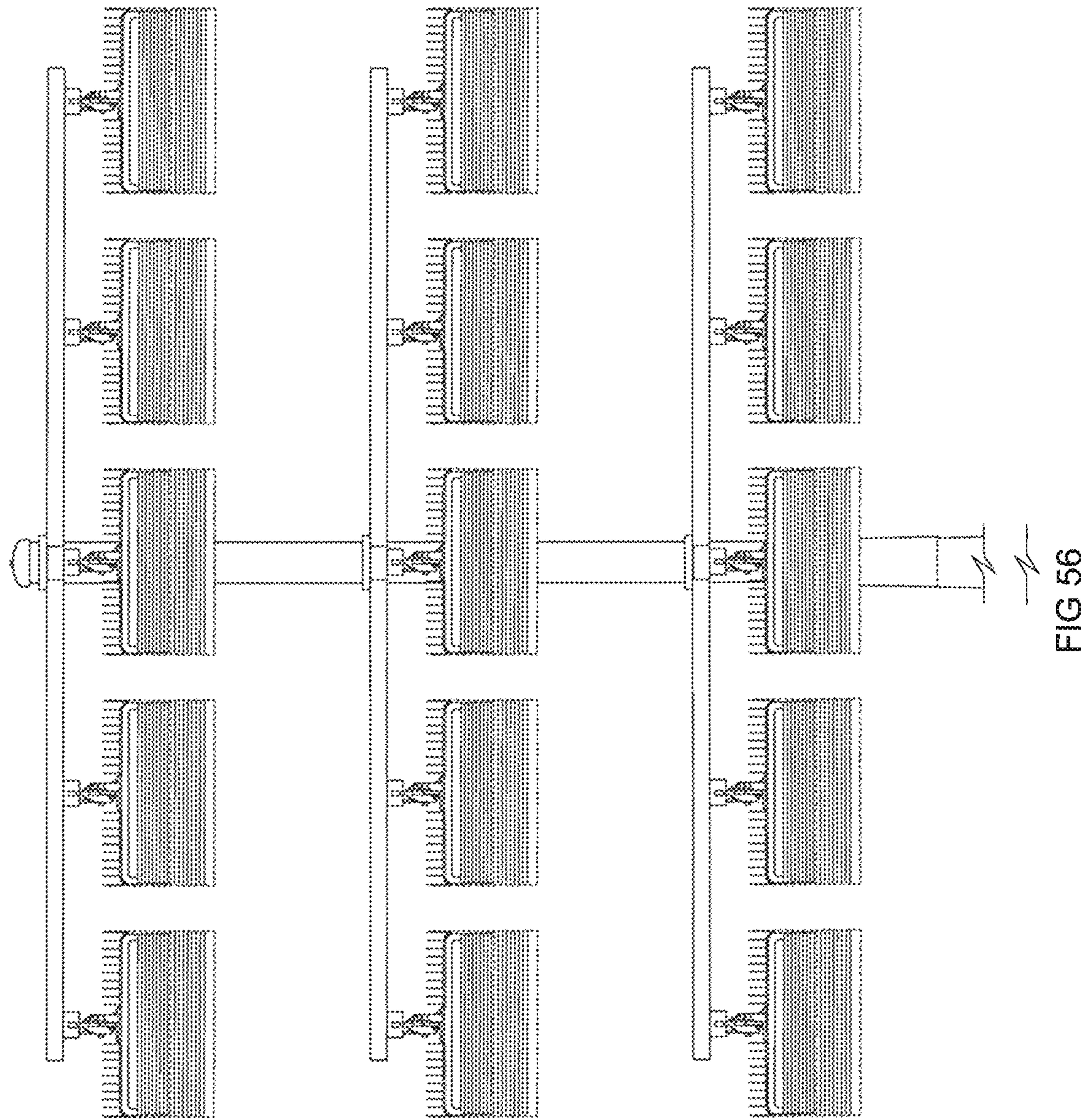


FIG 56

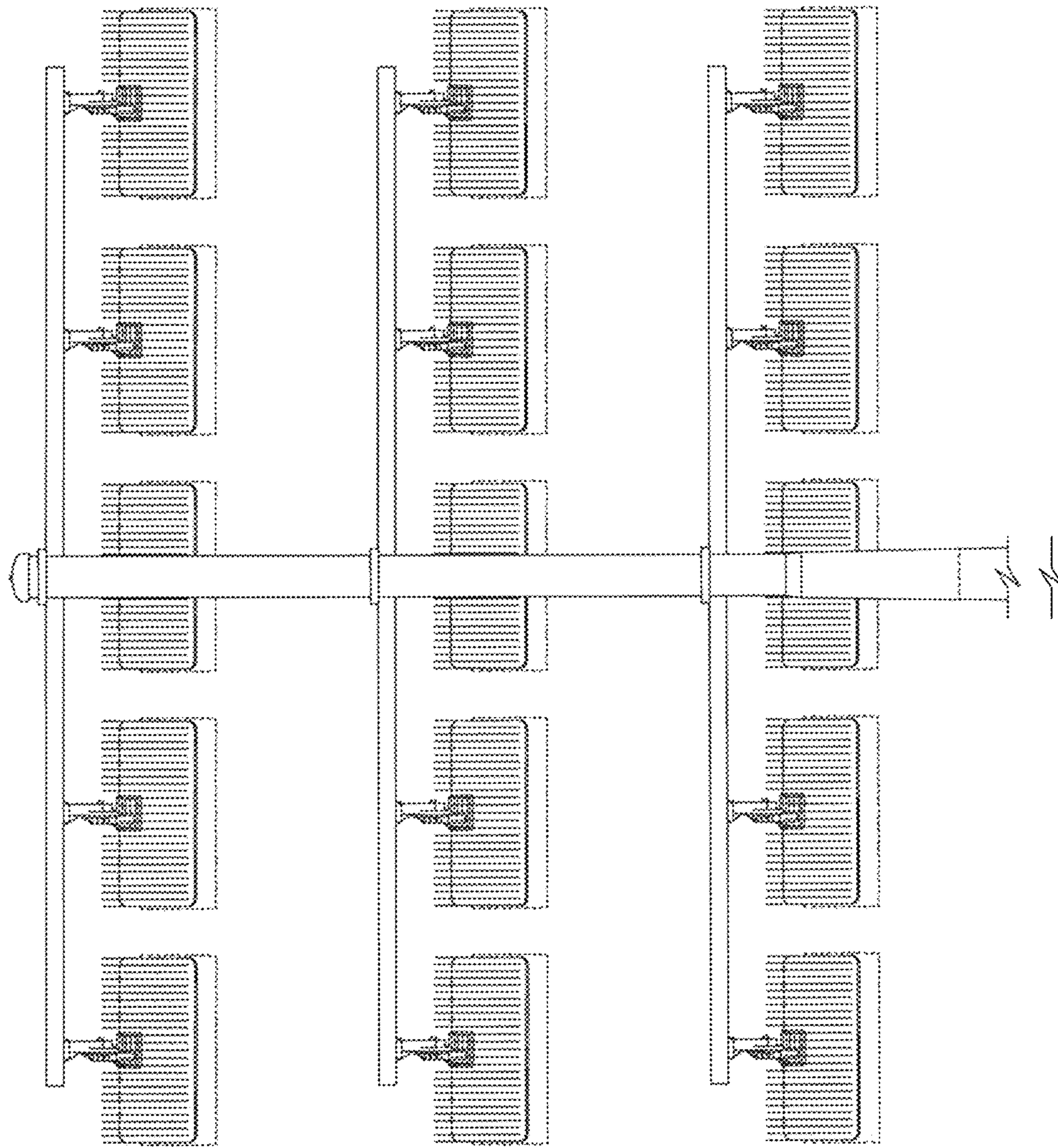
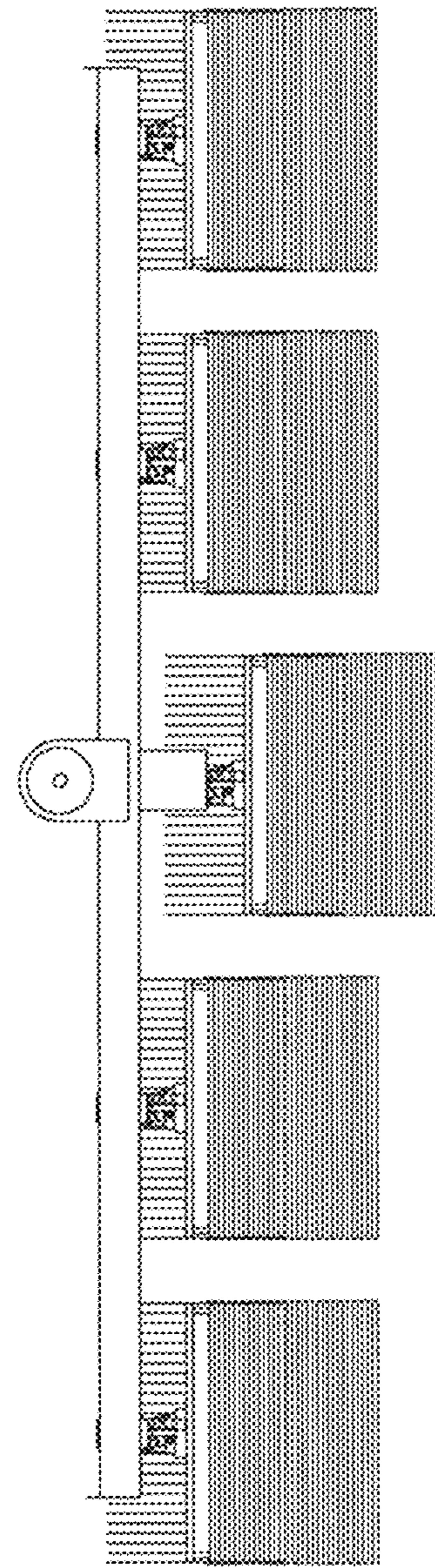
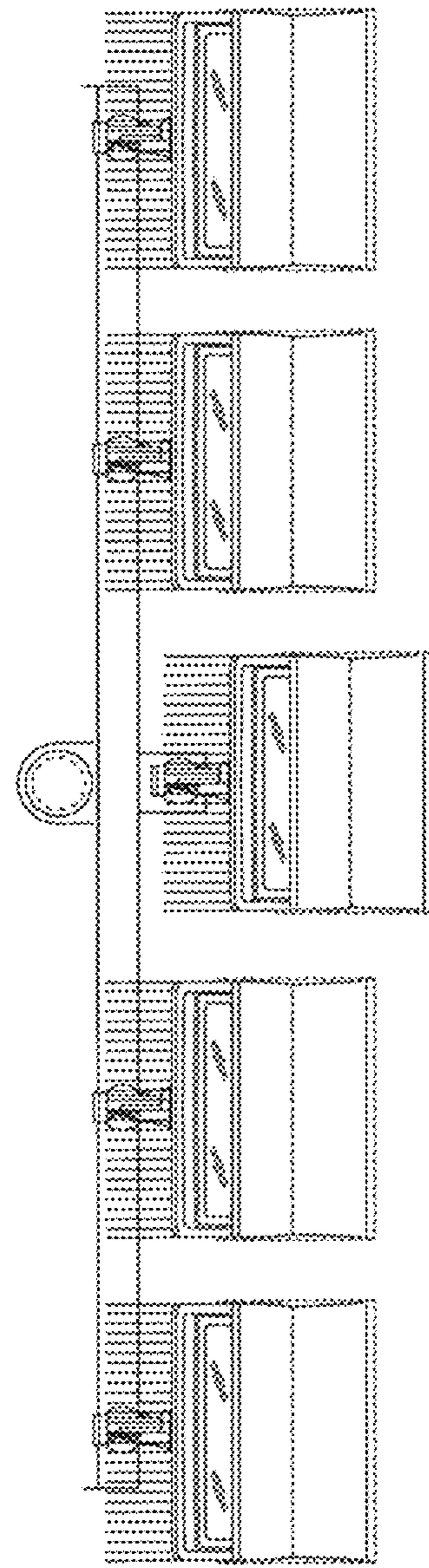


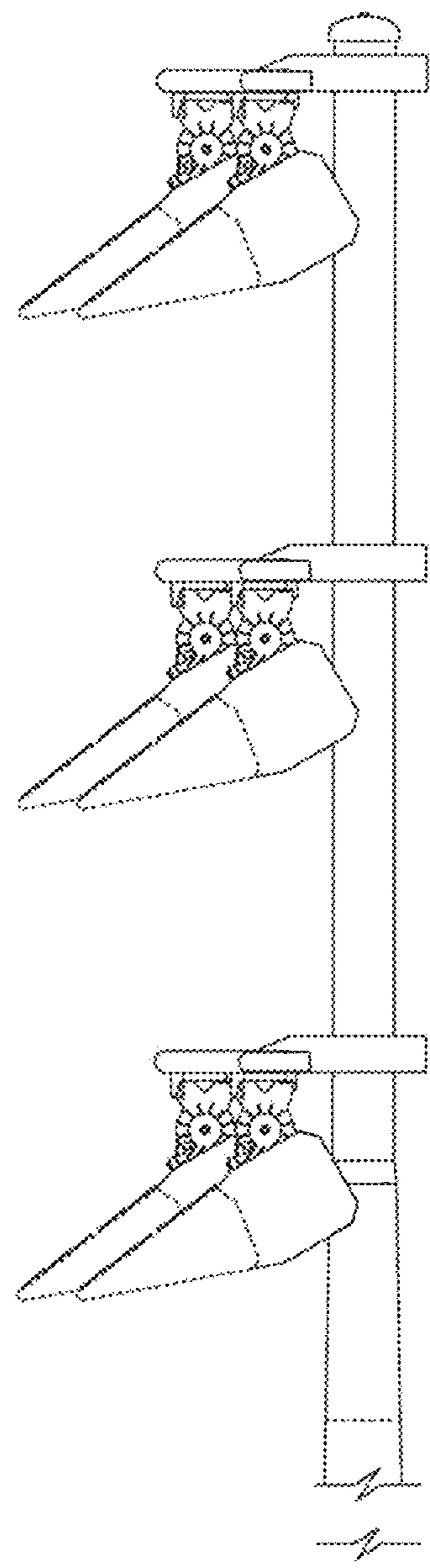
FIG 57



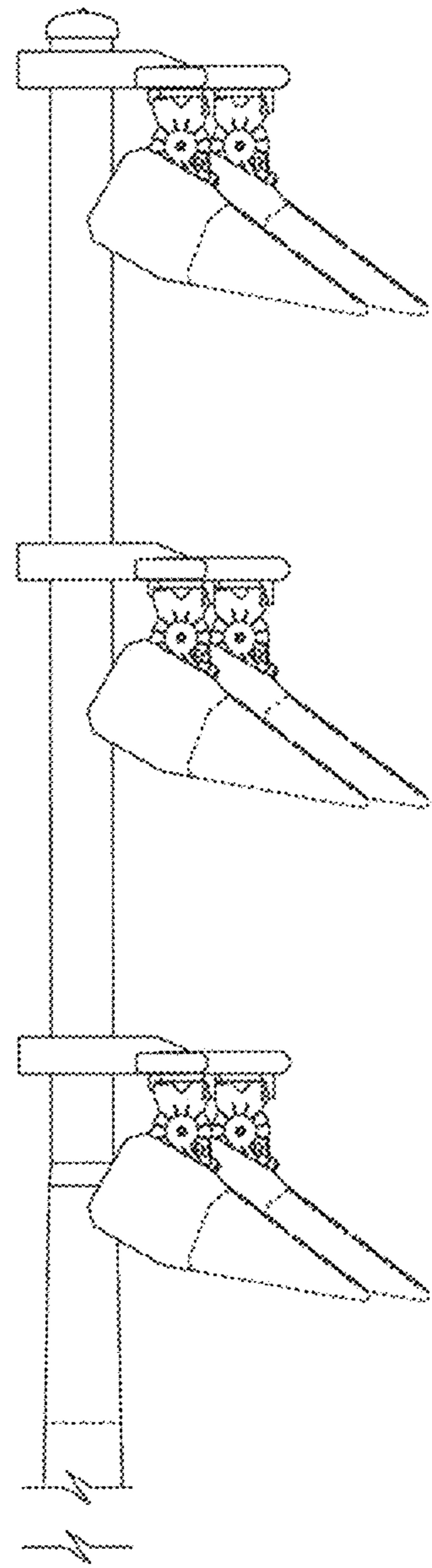
**FIG 58**



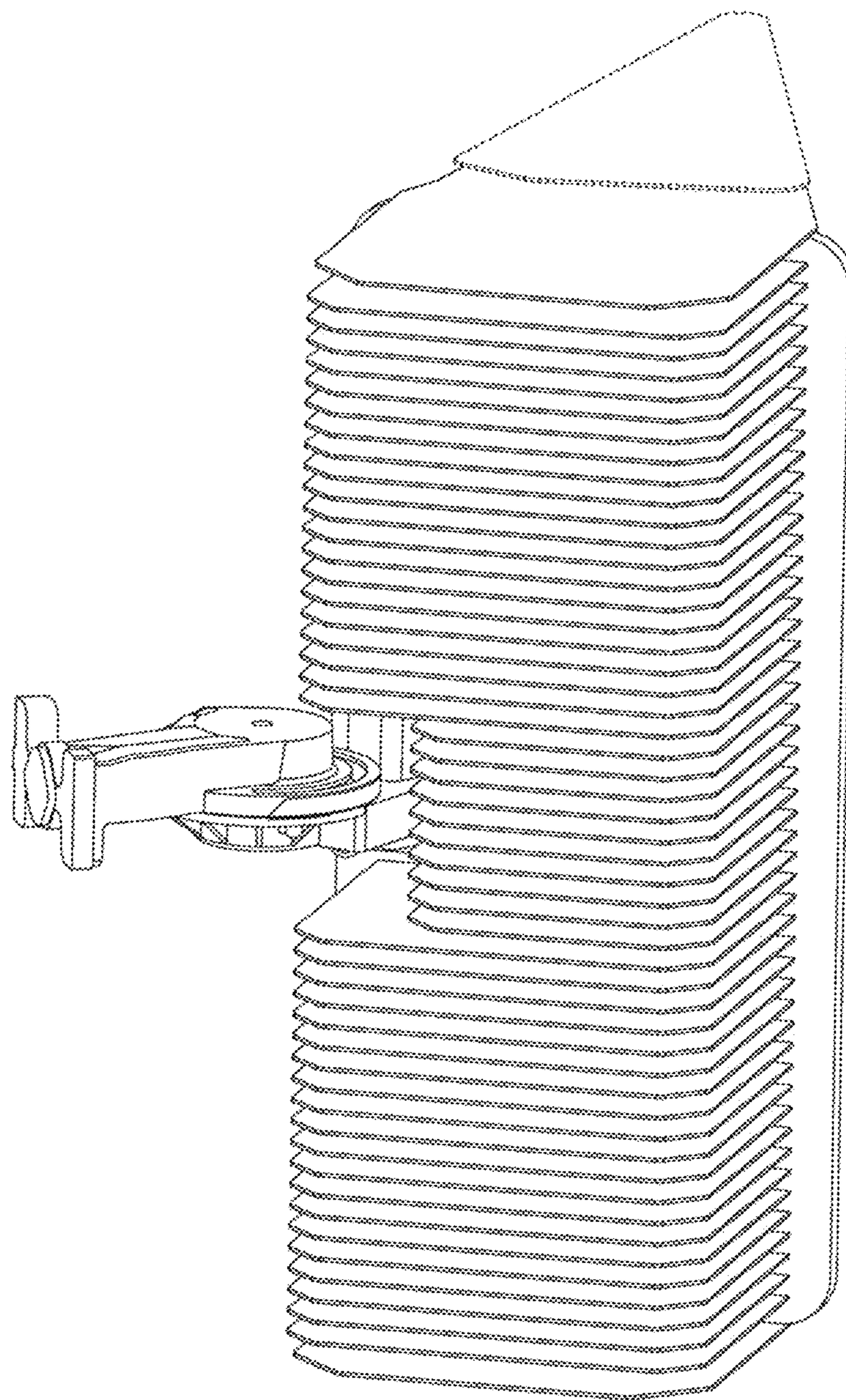
**FIG 58**



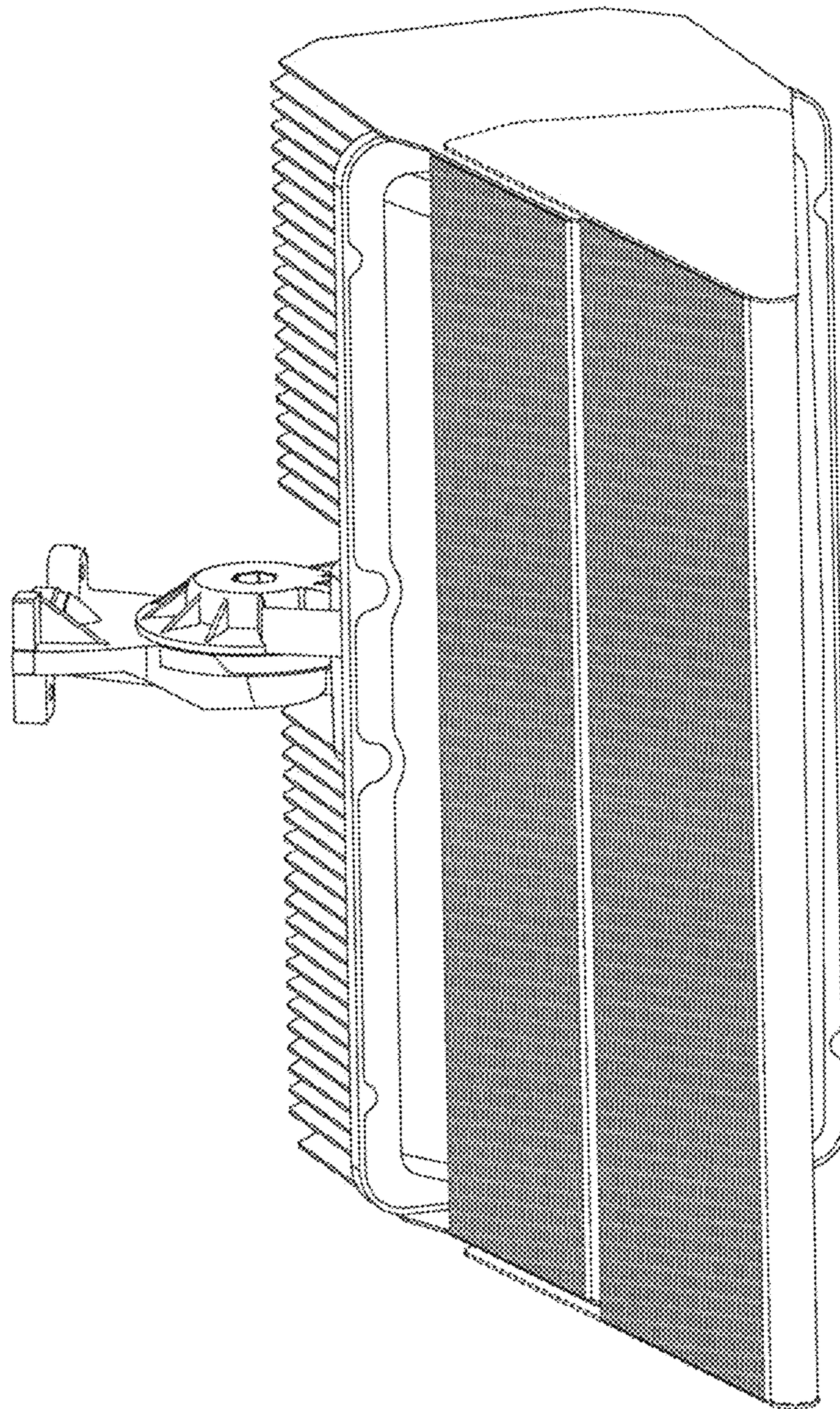
**FIG 60**



**FIG 61**



**FIG 62**



**FIG 63**