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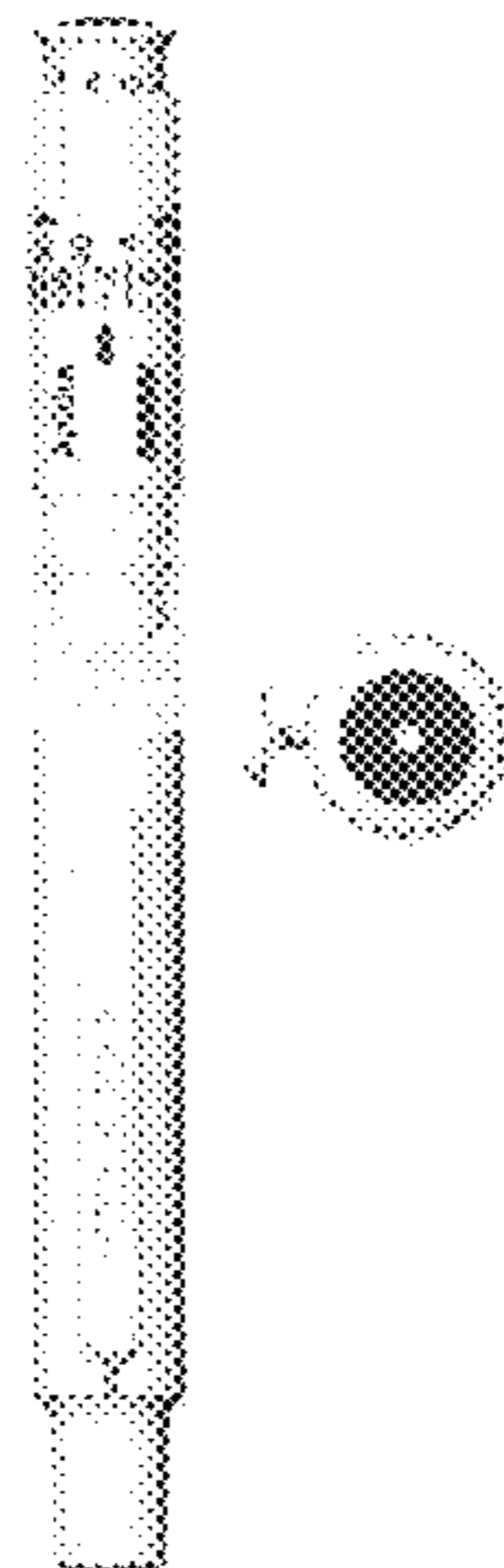
(12) **United States Design Patent**  
**Stephan et al.**

(10) **Patent No.:** **US D687,544 S**  
(45) **Date of Patent:** **\*\* Aug. 6, 2013**

- (54) **MEDICAL INJECTOR**
- (75) Inventors: **Caroline Stephan**, Offenbach (DE);  
**Michael Schabbach**, Weinheim (DE)
- (73) Assignee: **Sanofi-Aventis Deutschland GmbH**,  
Frankfurt (DE)
- (\*\*) Term: **14 Years**
- (21) Appl. No.: **29/287,565**
- (22) Filed: **Aug. 23, 2007**
- (30) **Foreign Application Priority Data**  
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- (51) **LOC (9) Cl.** ..... **24-02**
- (52) **U.S. Cl.**  
USPC ..... **D24/114**
- (58) **Field of Classification Search**  
USPC ..... D19/35, 36, 41, 43, 44, 45, 46, 47,  
D19/48, 49, 50, 51, 54, 55, 56, 57; D24/108,  
D24/112, 113, 114, 130, 133, 138, 146, 147;  
604/187, 188, 189, 197, 198, 207, 208, 227,  
604/229, 232, 181, 182, 185; 603/181, 182,  
603/185; 401/243, 263, 292  
See application file for complete search history.

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Photograph of Koh-i-Noor Rapidograph pens, as shown on-line. Photograph taken on Feb. 15, 2006. Downloaded from the Internet on Jul. 5, 2012. URL: <http://www.flickr.com/photos/surlygrrrl/100277672/in/faves-porkfriedrice/>. (2 pages).\*

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*Primary Examiner* — Karen E Eldridge Powers  
 (74) *Attorney, Agent, or Firm* — Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

## (57) CLAIM

The ornamental design for the medical injector, as shown and described.

## DESCRIPTION

The file of this patent contains at least one drawing executed in color. Copies of this patent with color drawings will be provided by the Office upon request and payment of the necessary fee.

FIG. 1 is a front plan view of a first embodiment of a medical injector of our new design, where the colored portions are shown in blue Pantone 072C;

FIG. 2 is a right side view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a top view thereof;

FIG. 6 is a bottom view thereof;

FIG. 7 is a front plan view of a second embodiment of a medical injector of our new design, where the colored portions are shown in green Pantone 375C;

FIG. 8 is a right side view thereof;

FIG. 9 is a rear view thereof;

FIG. 10 is a left side view thereof;

FIG. 11 is a top view thereof;

FIG. 12 is a bottom view thereof;

FIG. 13 is a front plan view of a third embodiment of a medical injector of our new design, where the colored portions are shown in mustard yellow Pantone 104C;

FIG. 14 is a right side view thereof;

FIG. 15 is a rear view thereof;

FIG. 16 is a left side view thereof;

FIG. 17 is a top view thereof;

FIG. 18 is a bottom view thereof;

FIG. 19 is a front plan view of a fourth embodiment of a medical injector of our new design, where the colored portions are shown in blue Pantone 313C;

FIG. 20 is a right side view thereof;

FIG. 21 is a rear view thereof;

FIG. 22 is a left side view thereof;

FIG. 23 is a top view thereof;

FIG. 24 is a bottom view thereof;

FIG. 25 is a front plan view of a fifth embodiment of a medical injector of our new design, where the indicia “comb 50” and the dark ring shown in FIG. 25 are shown in grey Pantone 445C;

FIG. 26 is a right side view thereof;

FIG. 27 is a rear view thereof;

FIG. 28 is a left side view thereof;

FIG. 29 is a top view thereof;

FIG. 30 is a bottom view thereof;

FIG. 31 is a front plan view of a sixth embodiment of a medical injector of our new design, where the colored portions are shown in lavender Pantone 2645C;

FIG. 32 is a right side view thereof;

FIG. 33 is a rear view thereof;

FIG. 34 is a left side view thereof;

FIG. 35 is a top view thereof;

FIG. 36 is a bottom view thereof;

FIG. 37 is a front plan view of a seventh embodiment of a medical injector of our new design, where the colored portions are shown in yellow Pantone 123C;

FIG. 38 is a right side view thereof;

FIG. 39 is a rear view thereof;

FIG. 40 is a left side view thereof;

FIG. 41 is a top view thereof;

FIG. 42 is a bottom view thereof;

FIG. 43 is a front plan view of an eighth embodiment of a medical injector of our new design, the design of FIGS. 1-6 depicted in black and white;

FIG. 44 is a right side view thereof;

FIG. 45 is a rear view thereof;

FIG. 46 is a left side view thereof;

FIG. 47 is a top view thereof;

FIG. 48 is a bottom view thereof;

FIG. 49 is a front plan view of a ninth embodiment of a medical injector of our new design, the design of FIGS. 7-12 depicted in black and white;

FIG. 50 is a right side view thereof;

FIG. 51 is a rear view thereof;

FIG. 52 is a left side view thereof;

FIG. 53 is a top view thereof;

FIG. 54 is a bottom view thereof;

FIG. 55 is a front plan view of a tenth embodiment of a medical injector of our new design, the design of FIGS. 13-18 depicted in black and white;

FIG. 56 is a right side view thereof;

FIG. 57 is a rear view thereof;

FIG. 58 is a left side view thereof;

FIG. 59 is a top view thereof;

FIG. 60 is a bottom view thereof;

FIG. 61 is a front plan view of an eleventh embodiment of a medical injector of our new design, the design of FIGS. 19-24 depicted in black and white;

FIG. 62 is a right side view thereof;

FIG. 63 is a rear view thereof;

FIG. 64 is a left side view thereof;

FIG. 65 is a top view thereof;

FIG. 66 is a bottom view thereof;

FIG. 67 is a front plan view of a twelfth embodiment of a medical injector of our new design, the design of FIGS. 25-30 depicted in black and white;

FIG. 68 is a right side view thereof;

FIG. 69 is a rear view thereof;

FIG. 70 is a left side view thereof;

FIG. 71 is a top view thereof;

FIG. 72 is a bottom view thereof;

FIG. 73 is a front plan view of a thirteenth embodiment of a medical injector of our new design, the design of FIGS. 31-36 depicted in black and white;

FIG. 74 is a right side view thereof;

FIG. 75 is a rear view thereof;

FIG. 76 is a left side view thereof;

FIG. 77 is a top view thereof;

FIG. 78 is a bottom view thereof;

FIG. 79 is a front plan view of a fourteenth embodiment of a medical injector of our new design, the design of FIGS. 37-42 depicted in black and white;

FIG. 80 is a right side view thereof;

FIG. 81 is a rear view thereof;

FIG. 82 is a left side view thereof;

FIG. 83 is a top view thereof;

FIG. 84 is a bottom view thereof;

FIG. 85 is a front plan view of a fifteenth embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 86 is a right side view thereof, the grey bar indicating the presence of a contrasting color;

FIG. 87 is a rear view thereof;

FIG. 88 is a left side view thereof, the letters x indicating the presence of indicia;

FIG. 89 is a top view thereof;

FIG. 90 is a bottom view thereof;

FIG. 91 is a front plan view of a sixteenth embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 92 is a right side view thereof, the grey bar indicating the presence of a contrasting color;

FIG. 93 is a rear view thereof;

FIG. 94 is a left side view thereof, the letters x indicating the presence of indicia;

FIG. 95 is a top view thereof;

FIG. 96 is a bottom view thereof;

FIG. 97 is a front plan view of a seventeenth embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 98 is a right side view thereof, the grey bar indicating the presence of a contrasting color;

FIG. 99 is a rear view thereof;

FIG. 100 is a left side view thereof, the letters x indicating the presence of indicia;

FIG. 101 is a top view thereof;

FIG. 102 is a bottom view thereof;

FIG. 103 is a front plan view of an eighteenth embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 104 is a right side view thereof, the letters x indicating the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 105 is a rear view thereof;

FIG. 106 is a left side view thereof; the letters x indicating the presence of indicia;

FIG. 107 is a top view thereof;

FIG. 108 is a bottom view thereof;

FIG. 109 is a front plan view of a nineteenth embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 110 is a right side view thereof, the letters x indicating the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 111 is a rear view thereof;

FIG. 112 is a left side view thereof, the letters x indicating the presence of indicia;

FIG. 113 is a top view thereof;

FIG. 114 is a bottom view thereof;

FIG. 115 is a front plan view of a twentieth embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 116 is a right side view thereof, the letters x indicating the presence of indicia and the grey bar the presence of a contrasting color;

FIG. 117 is a rear view thereof;

FIG. 118 is a left side view thereof, the letters x indicating the presence of indicia;

FIG. 119 is a top view thereof;

FIG. 120 is a bottom view thereof;

FIG. 121 is a front plan view of a twenty-first embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia;

FIG. 122 is a right side view thereof, the letters x indicating the presence of indicia;

FIG. 123 is a rear view thereof;

FIG. 124 is a left side view thereof, the letters x indicating the presence of indicia;

FIG. 125 is a top view thereof;

FIG. 126 is a bottom view thereof;

FIG. 127 is a front plan view of a twenty-second embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia;

FIG. 128 is a right side view thereof, the letters x indicating the presence of indicia;

FIG. 129 is a rear view thereof;

FIG. 130 is a left side view thereof, the letters x indicating the presence of indicia;

FIG. 131 is a top view thereof;

FIG. 132 is a bottom view thereof;

FIG. 133 is a front plan view of a twenty-third embodiment of a medical injector of our new design, the letters x rendered in broken lines, and shown in some of the figures, illustrate the presence of indicia;

FIG. 134 is a right side view thereof, the letters x indicating the presence of indicia;

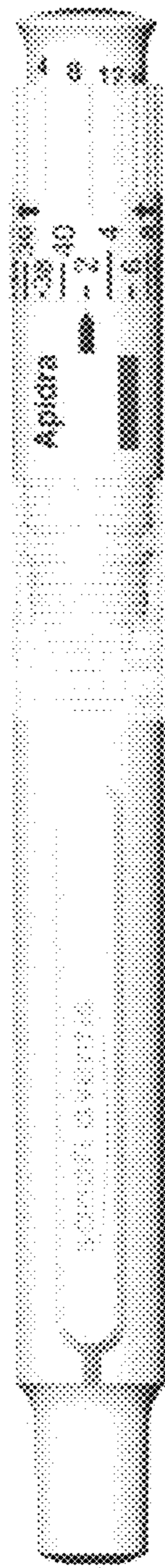
FIG. 135 is a rear view thereof;

FIG. 136 is a left side view thereof, the letters x indicating the presence of indicia;

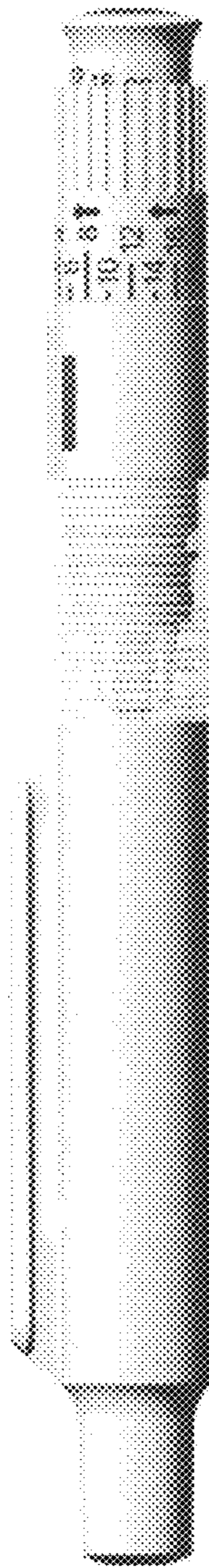
FIG. 137 is a top view thereof;  
FIG. 138 is a bottom view thereof;  
FIG. 139 is a front plan view of a twenty-fourth embodiment of a medical injector of our new design;  
FIG. 140 is a right side view thereof;  
FIG. 141 is a rear view thereof;  
FIG. 142 is a left side view thereof;  
FIG. 143 is a top view thereof;  
FIG. 144 is a bottom view thereof;

FIG. 145 is a front plan view of a twenty-fifth embodiment of a medical injector of our new design;  
FIG. 146 is a right side view thereof;  
FIG. 147 is a rear view thereof;  
FIG. 148 is a left side view thereof;  
FIG. 149 is a top view thereof; and,  
FIG. 150 is a bottom view thereof.

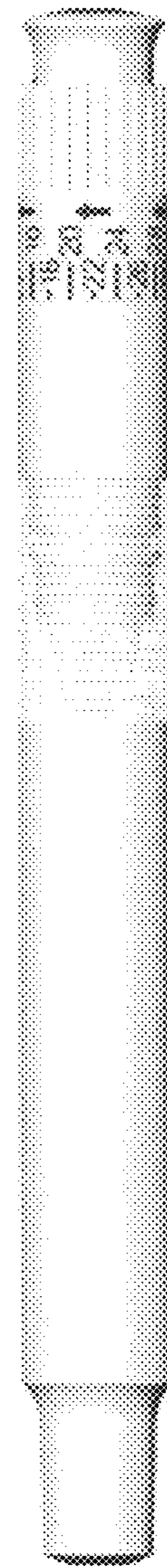
**1 Claim, 50 Drawing Sheets  
(50 of 50 Drawing Sheet(s) Filed in Color)**



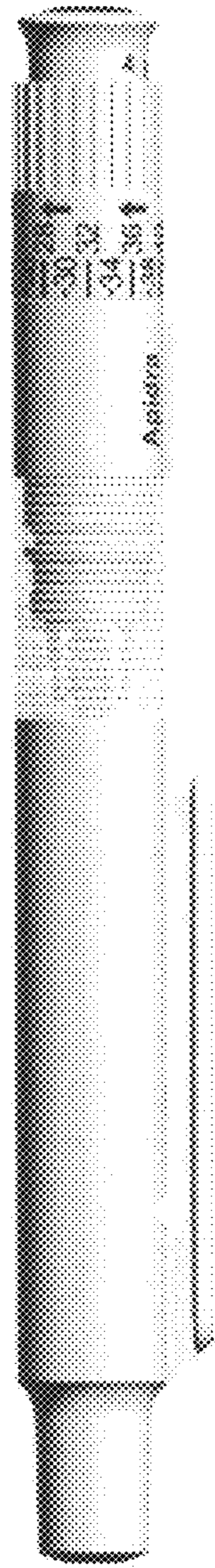
**FIG. 1**



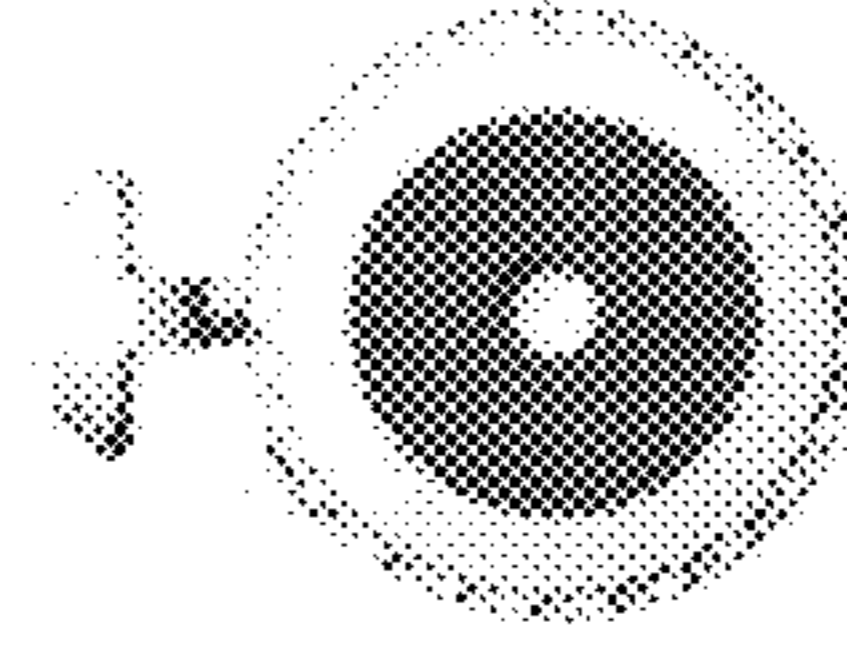
**FIG. 2**



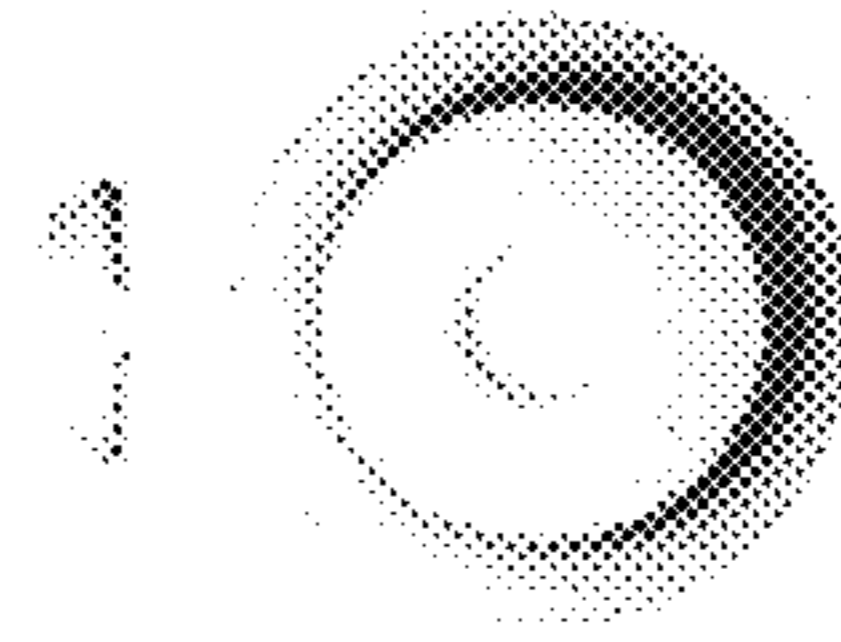
**FIG. 3**



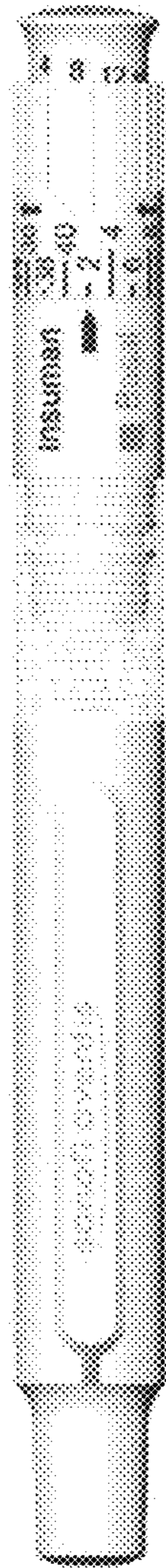
**FIG. 4**



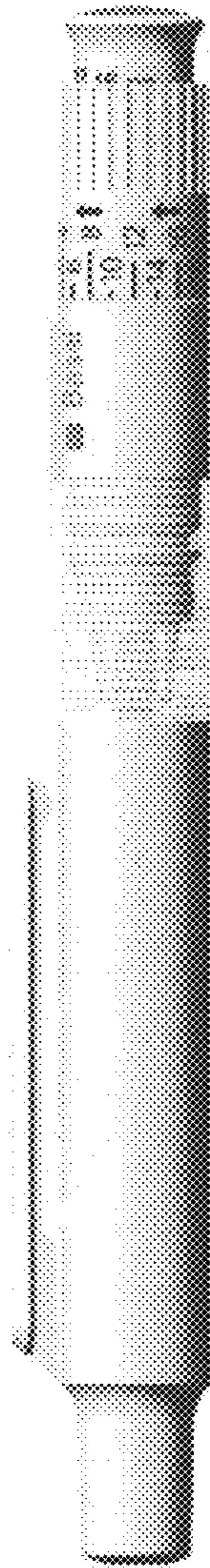
**FIG. 5**



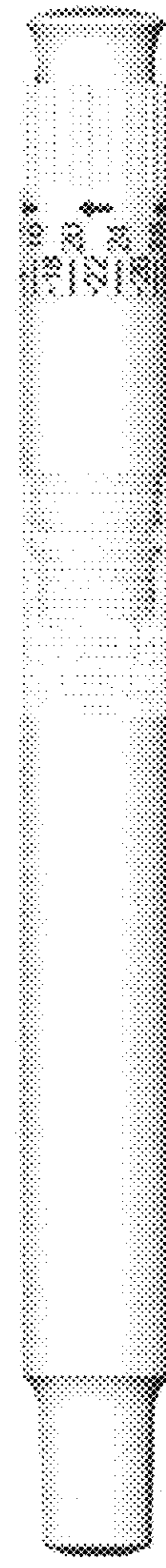
**FIG. 6**



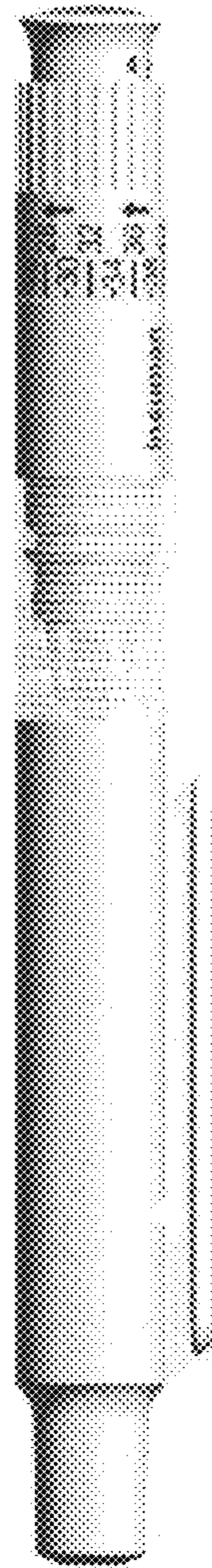
**FIG. 7**



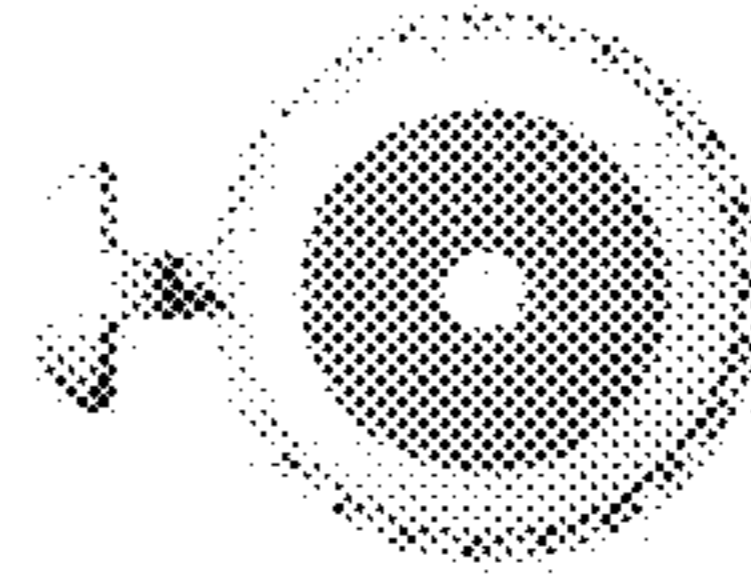
**FIG. 8**



**FIG. 9**



**FIG. 10**

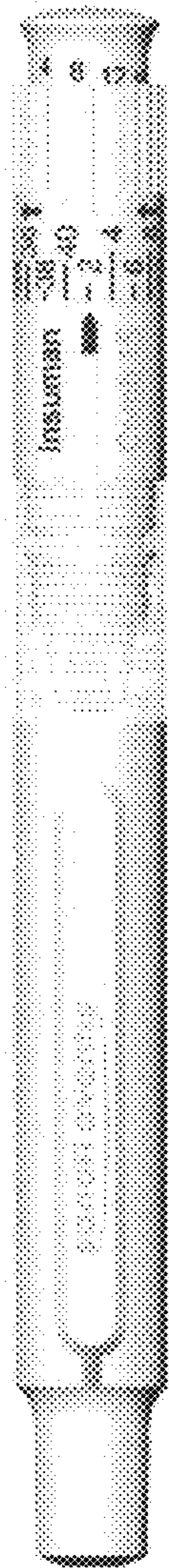


**FIG. 11**

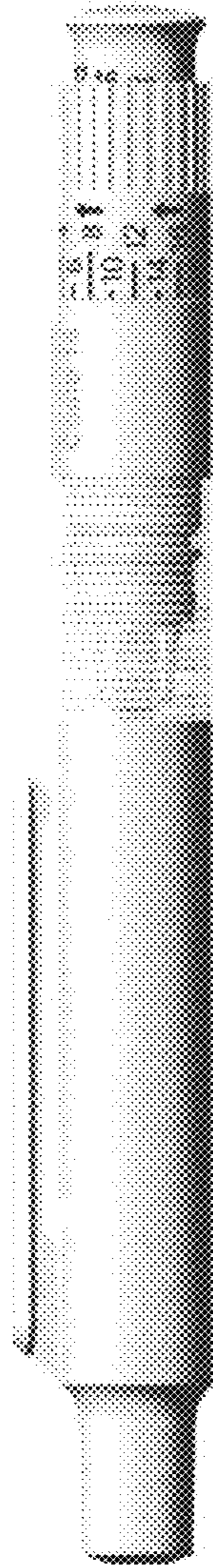


**FIG. 12**

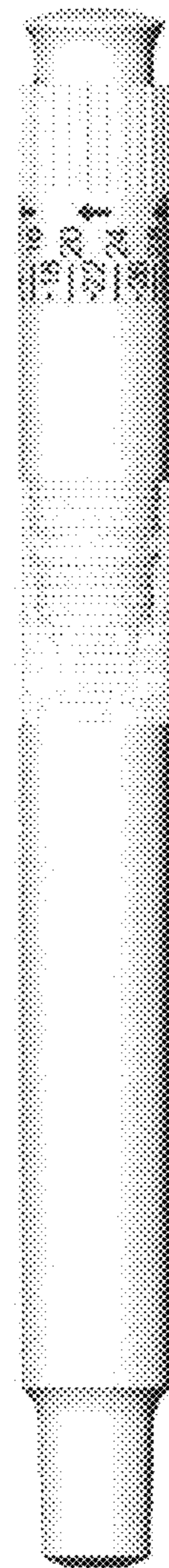




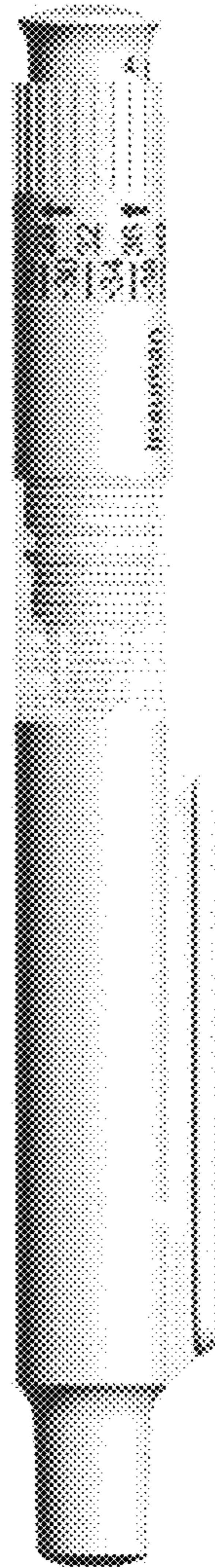
**FIG. 13**



**FIG. 14**



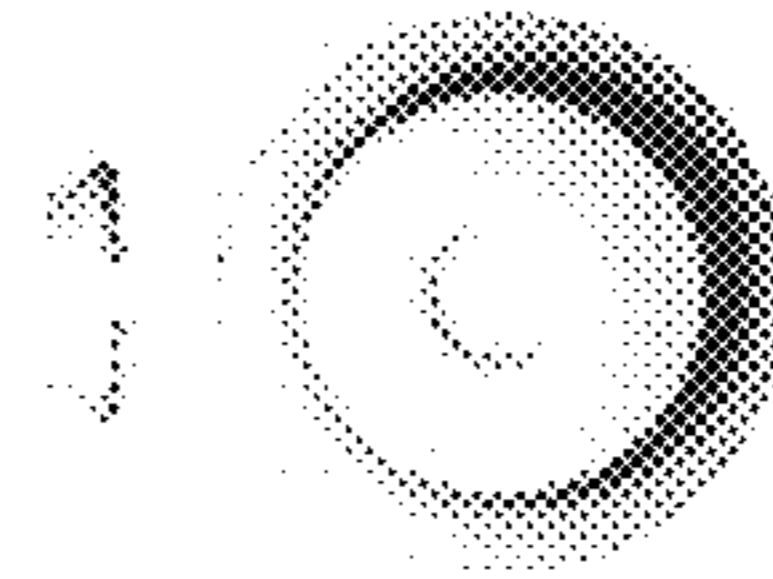
**FIG. 15**



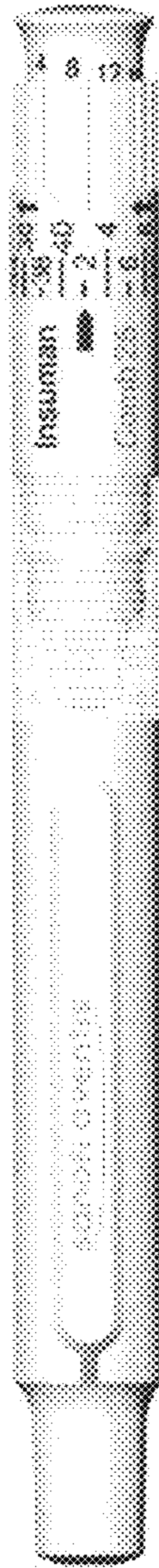
**FIG. 16**



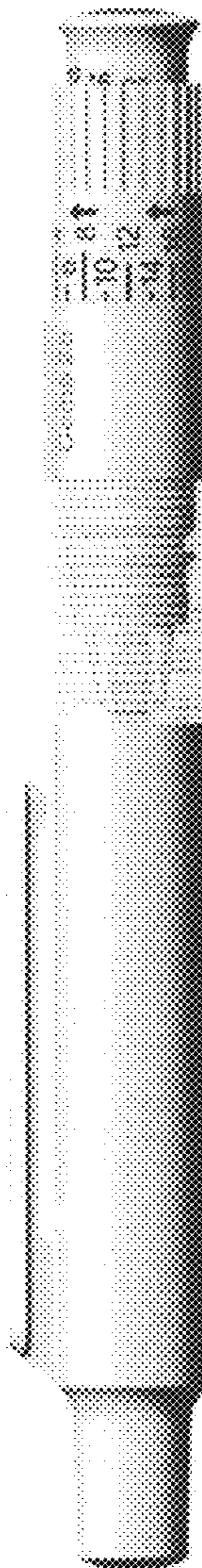
**FIG. 17**



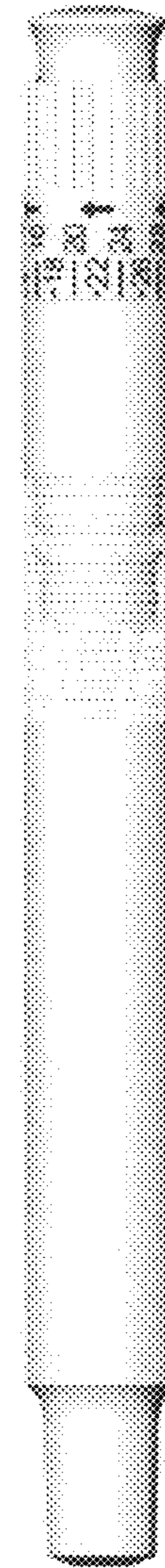
**FIG. 18**



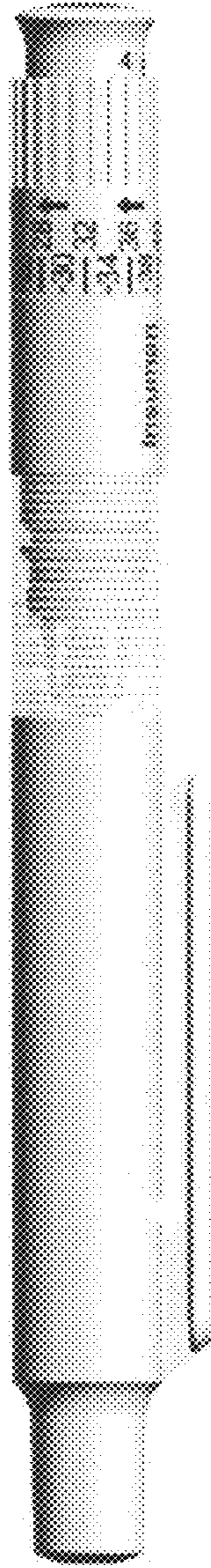
**FIG. 19**



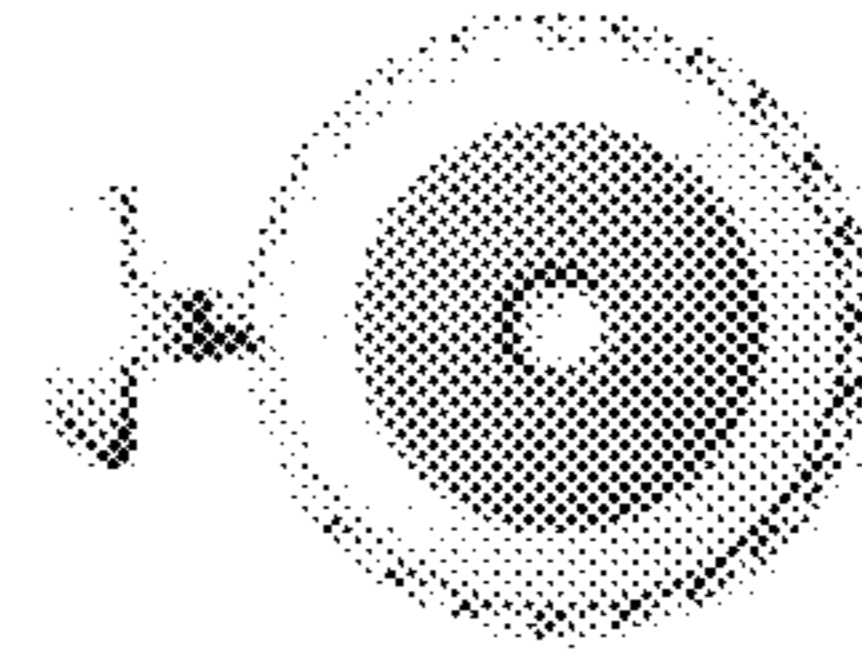
**FIG. 20**



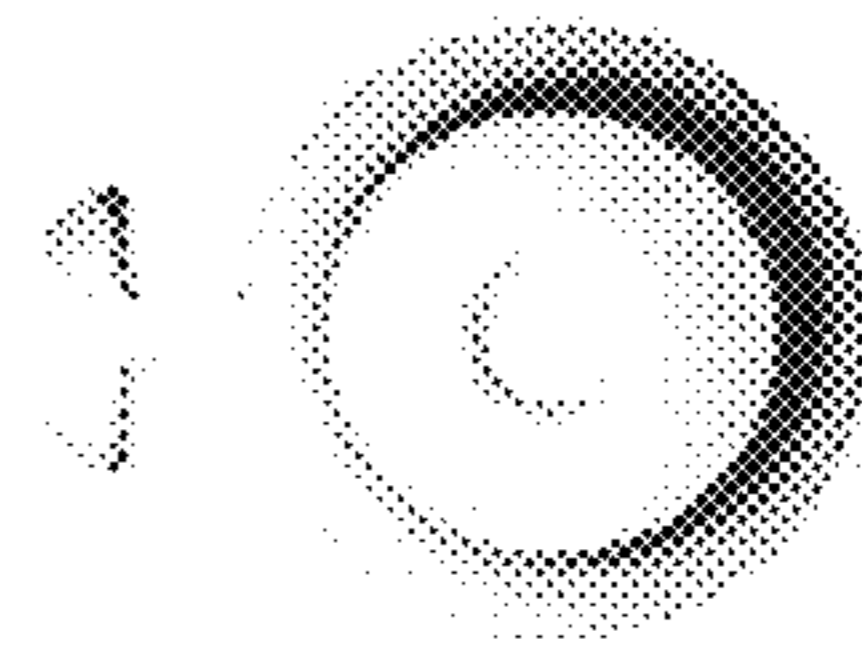
**FIG. 21**



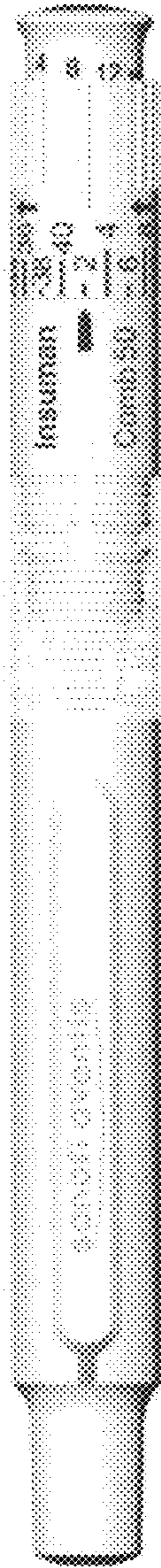
**FIG. 22**



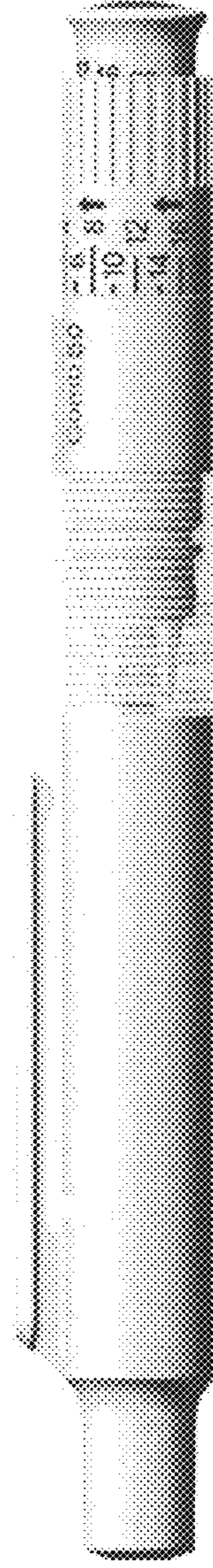
**FIG. 23**



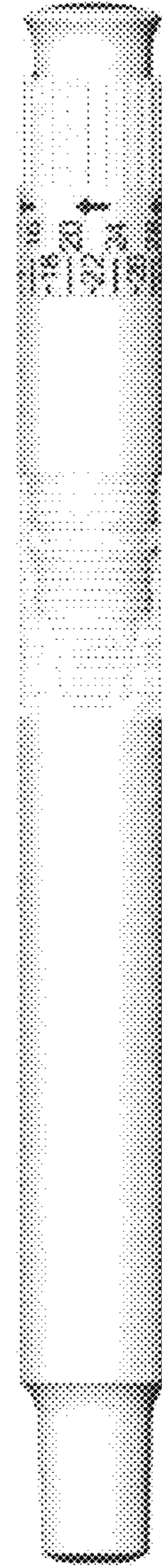
**FIG. 24**



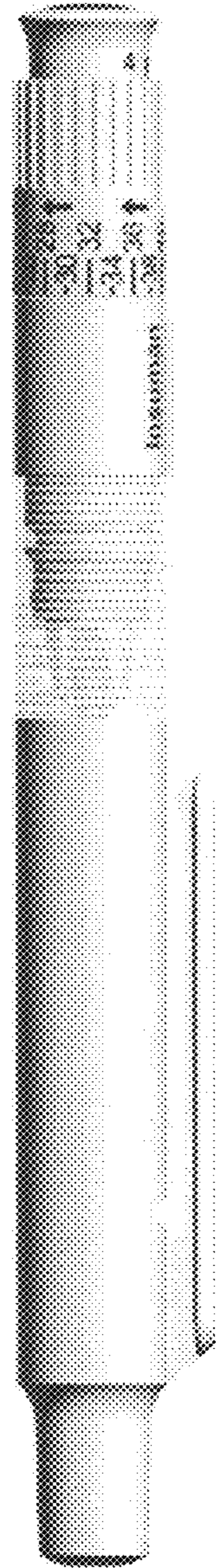
**FIG. 25**



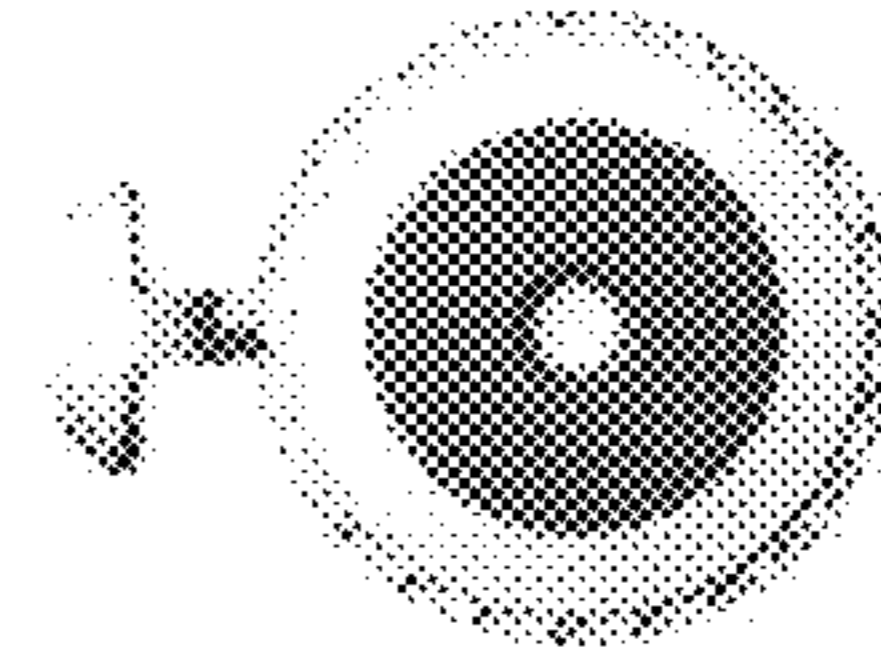
**FIG. 26**



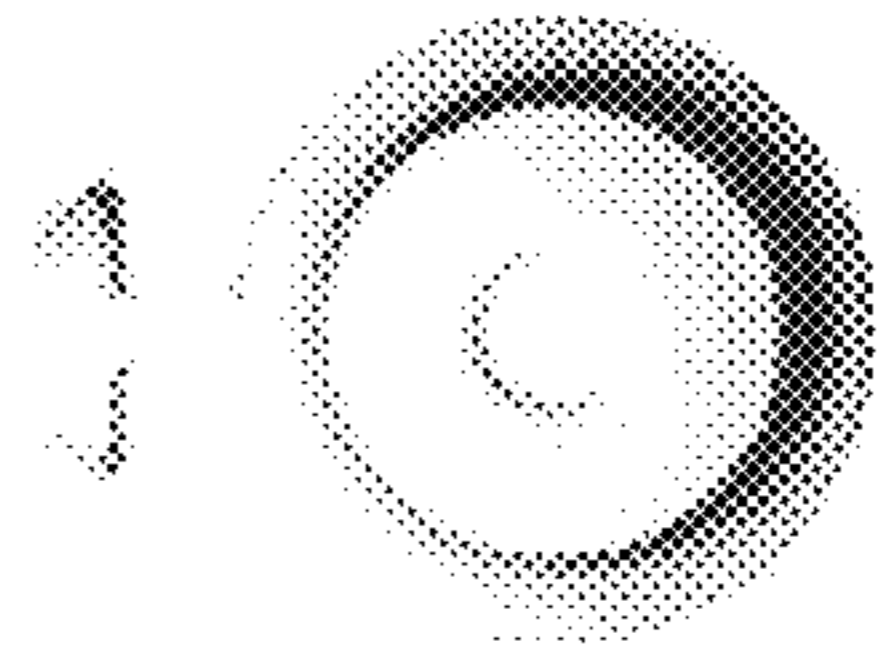
**FIG. 27**



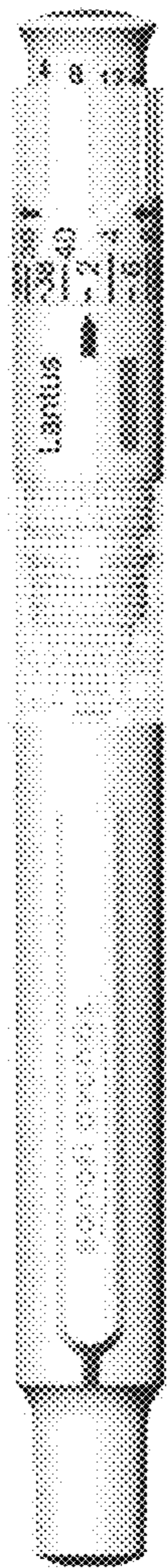
**FIG. 28**



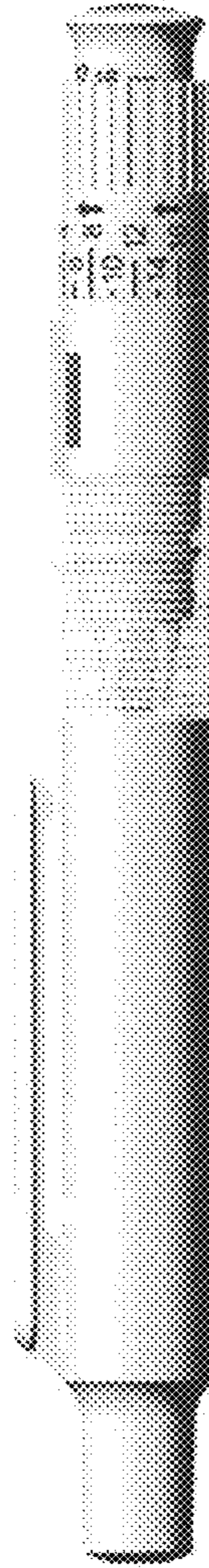
**FIG. 29**



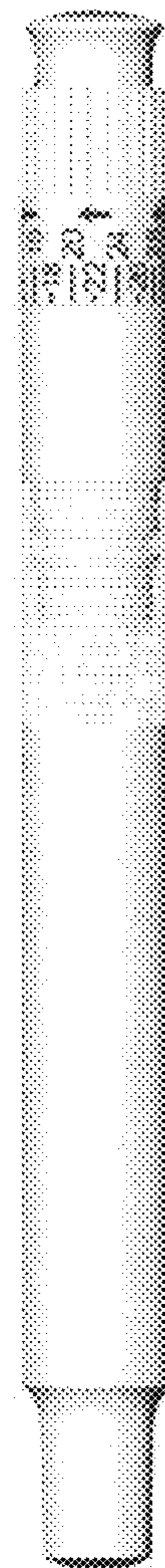
**FIG. 30**



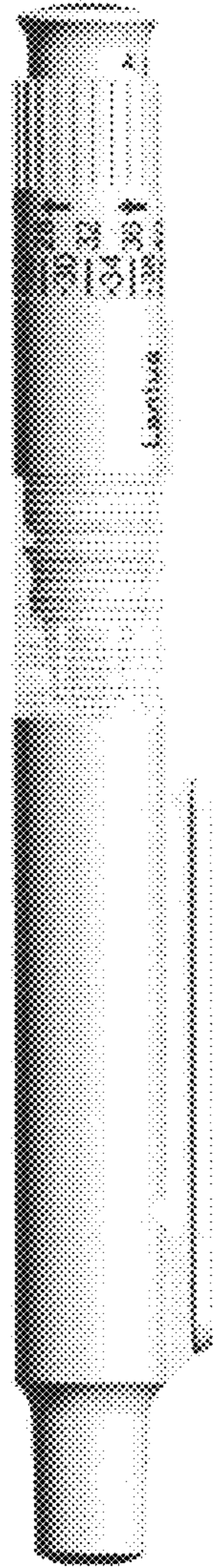
**FIG. 31**



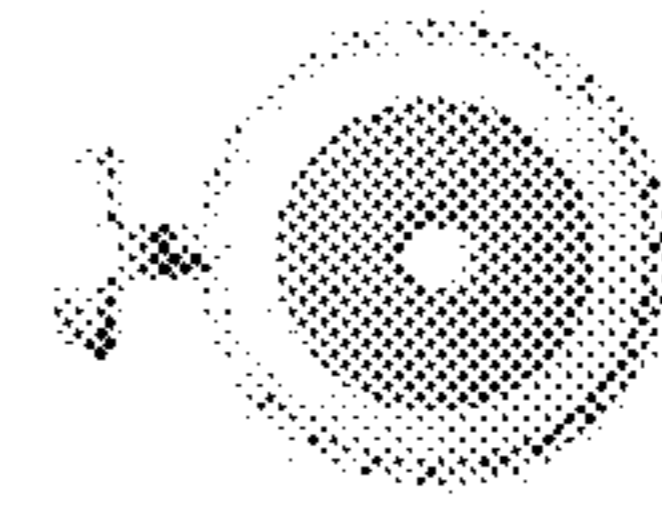
**FIG. 32**



**FIG. 33**



**FIG. 34**

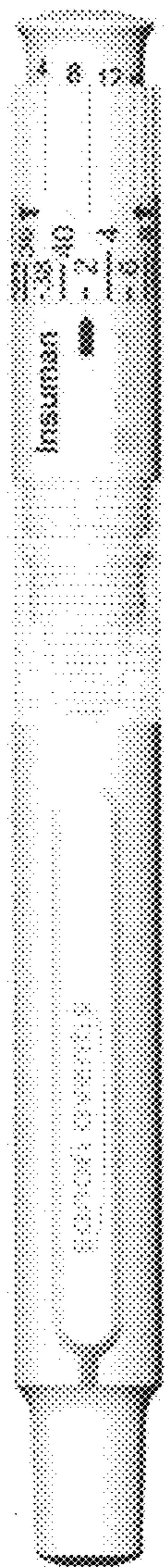


**FIG. 35**

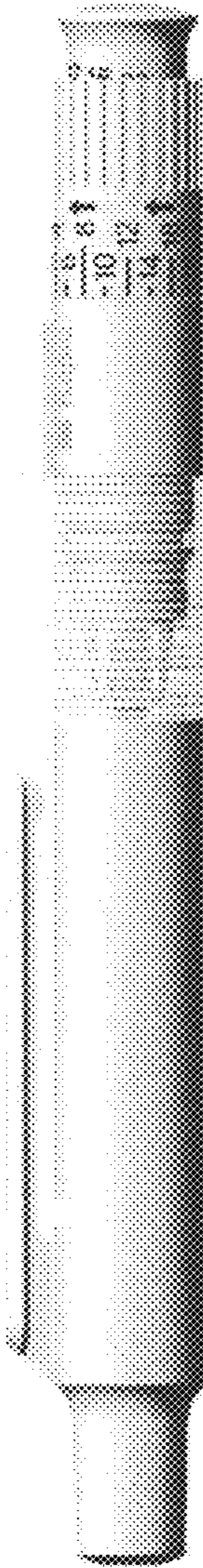


**FIG. 36**

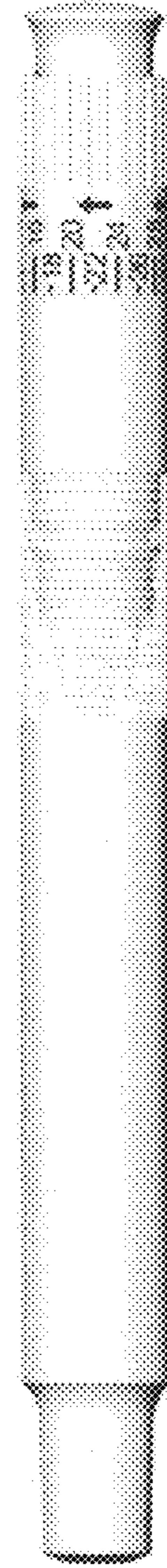




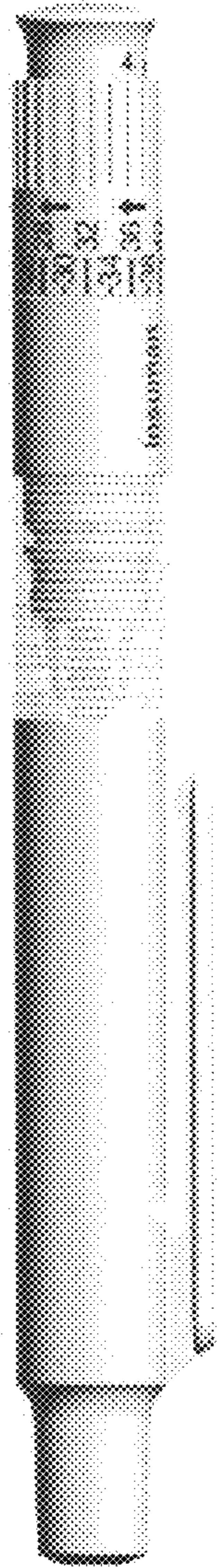
**FIG. 37**



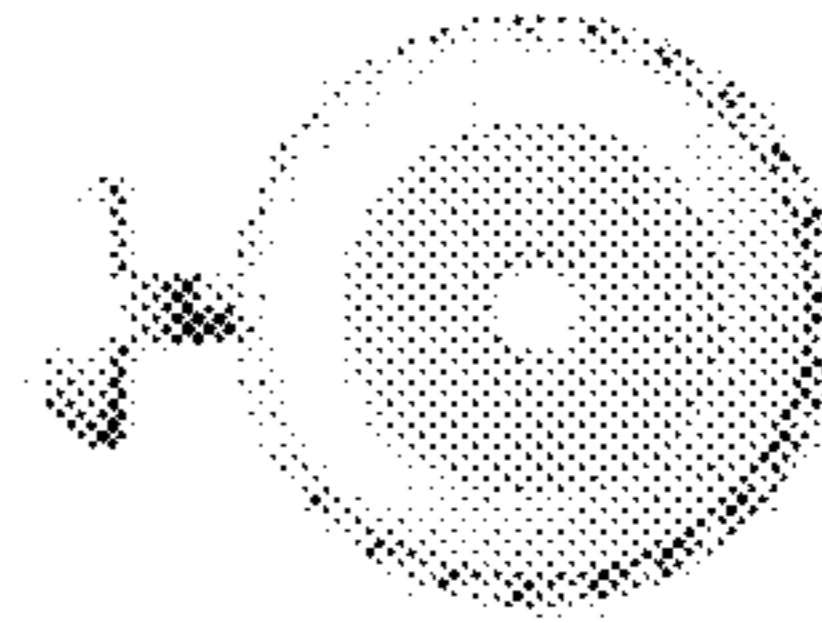
**FIG. 38**



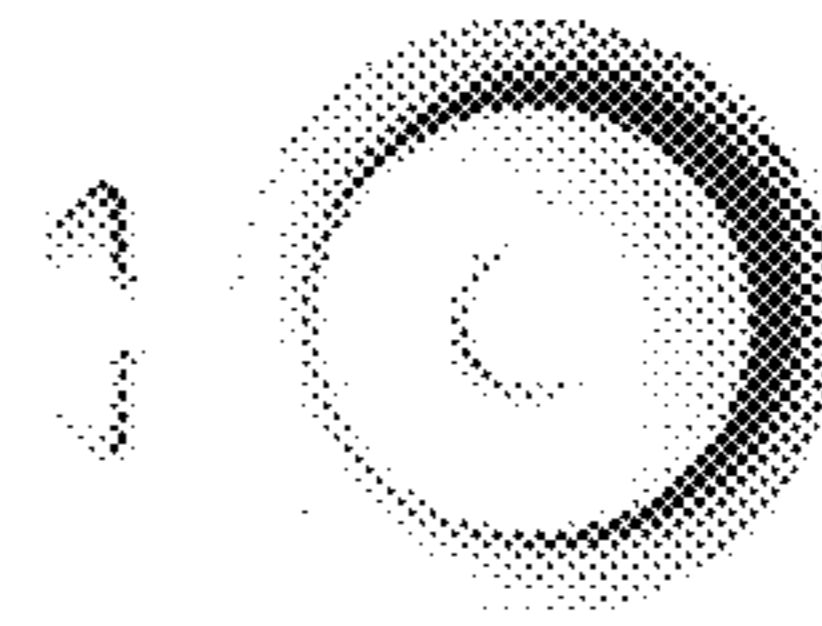
**FIG. 39**



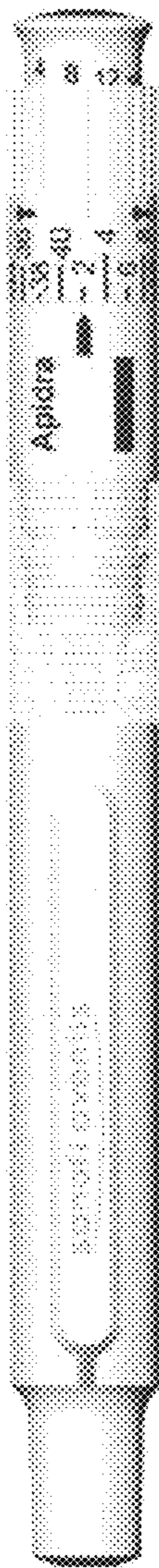
**FIG. 40**



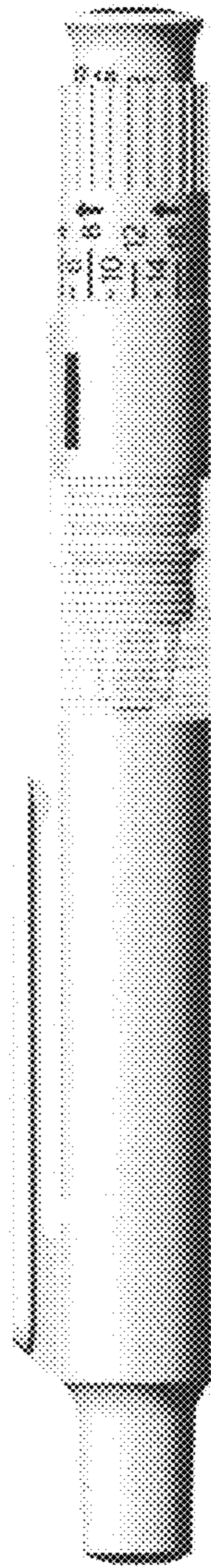
**FIG. 41**



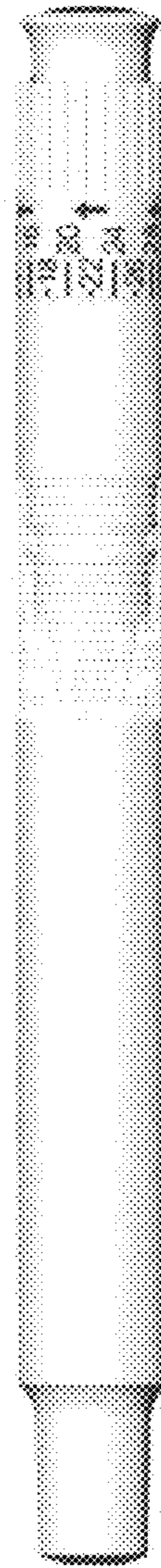
**FIG. 42**



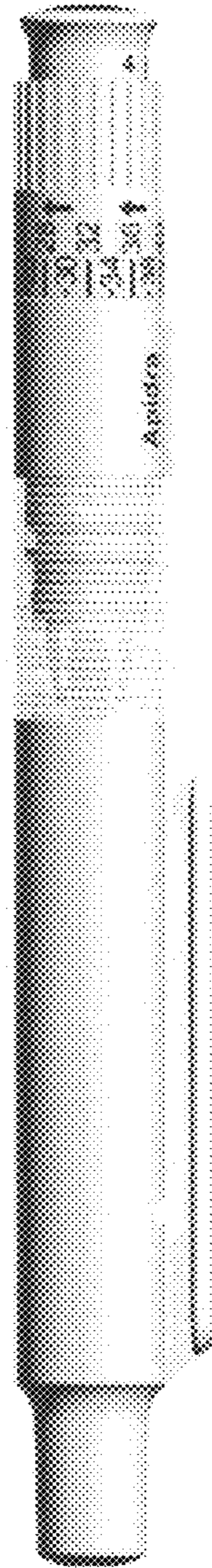
**FIG. 43**



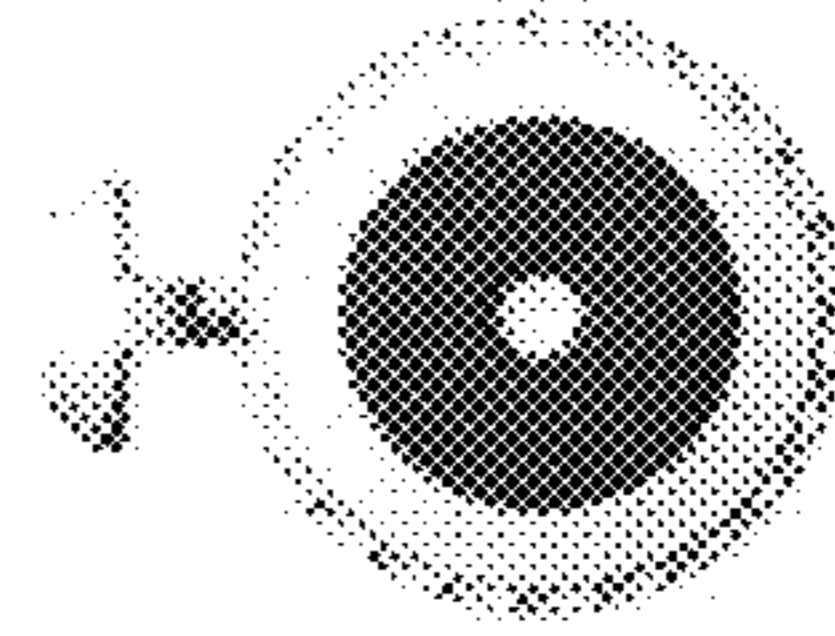
**FIG. 44**



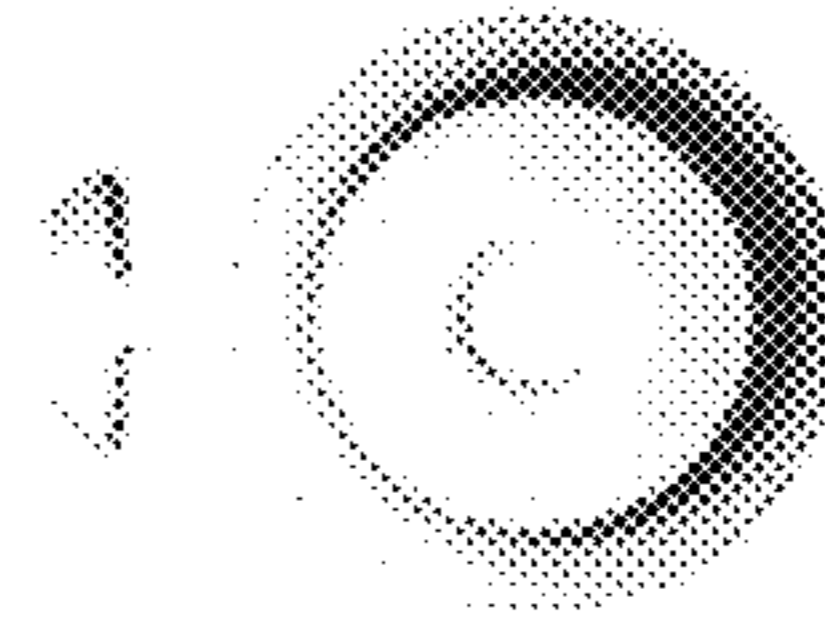
**FIG. 45**



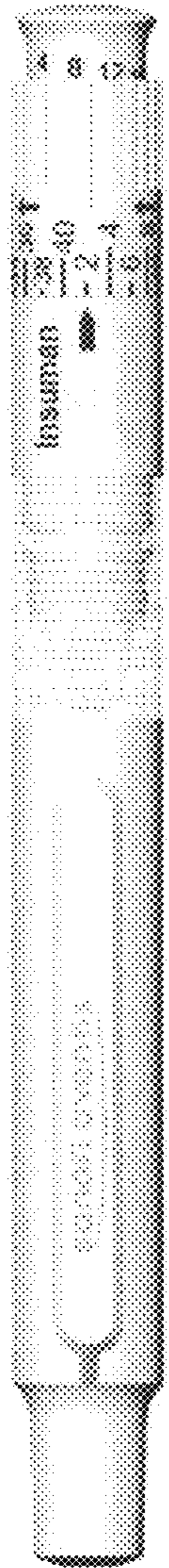
**FIG. 46**



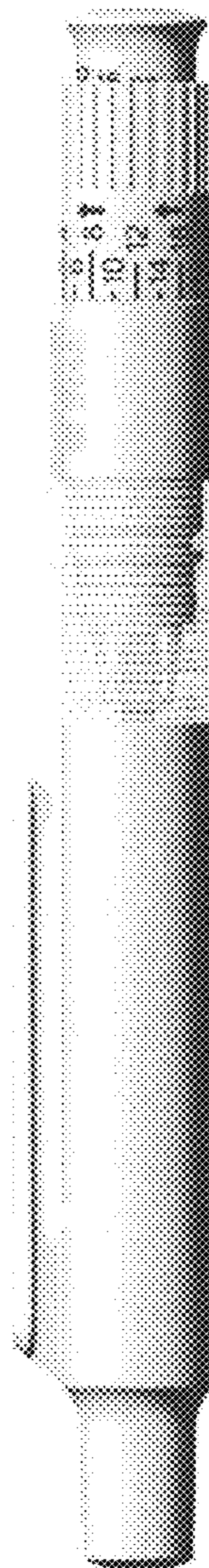
**FIG. 47**



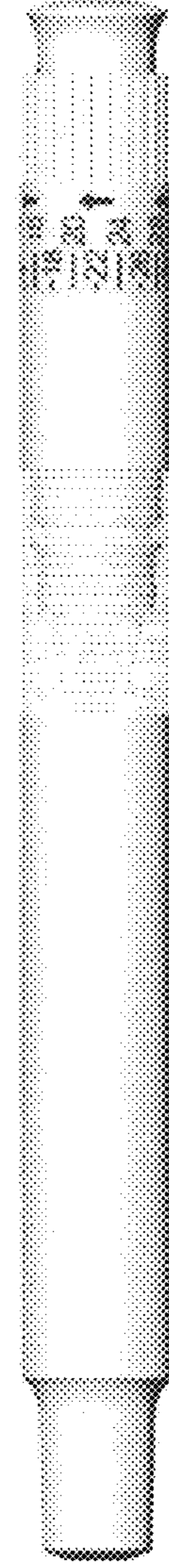
**FIG. 48**



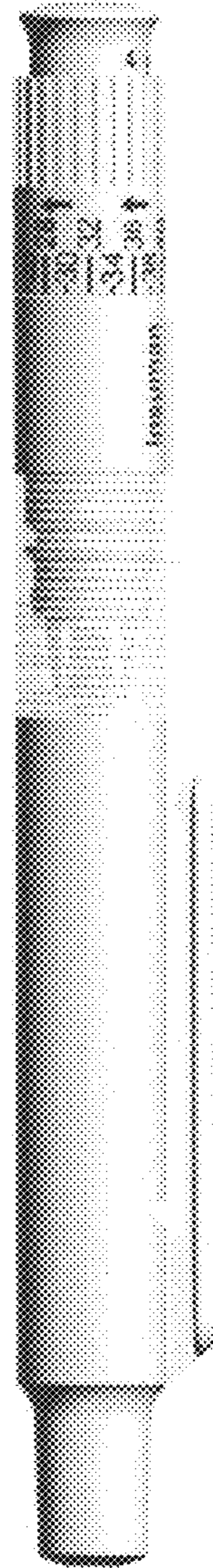
**FIG. 49**



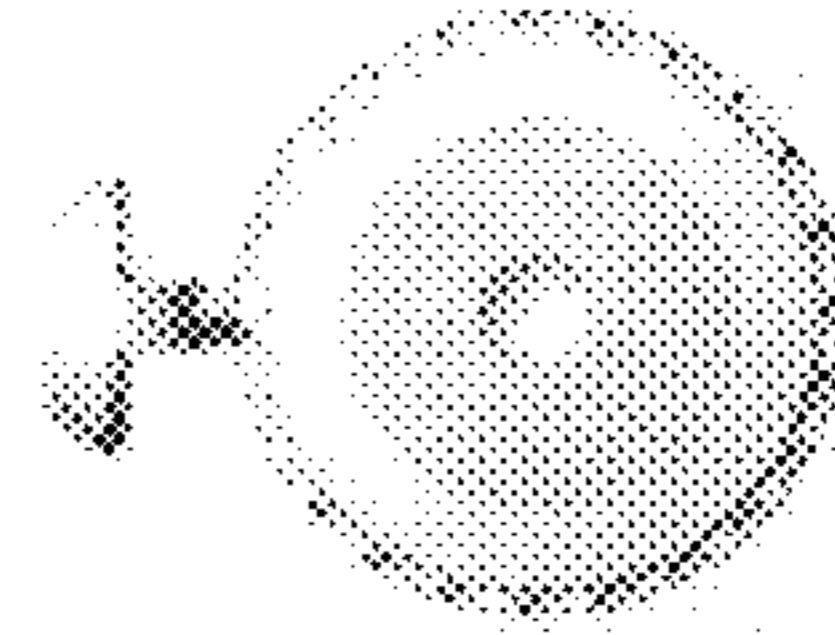
**FIG. 50**



**FIG. 51**



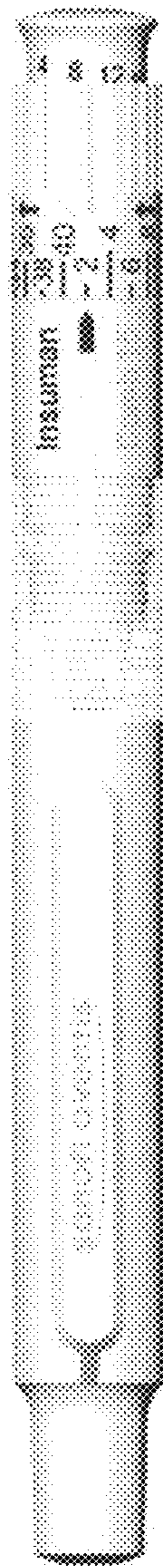
**FIG. 52**



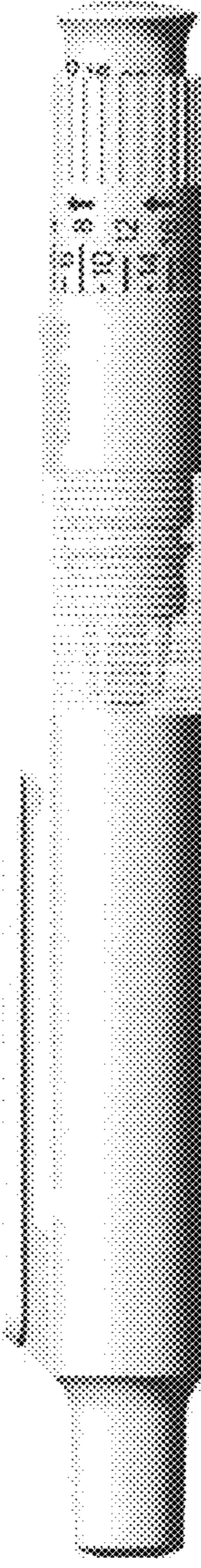
**FIG. 53**



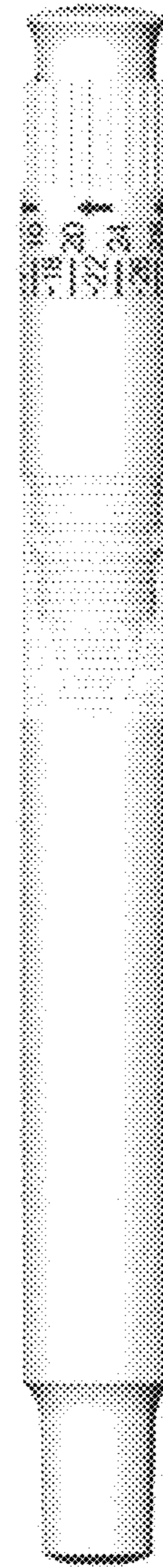
**FIG. 54**



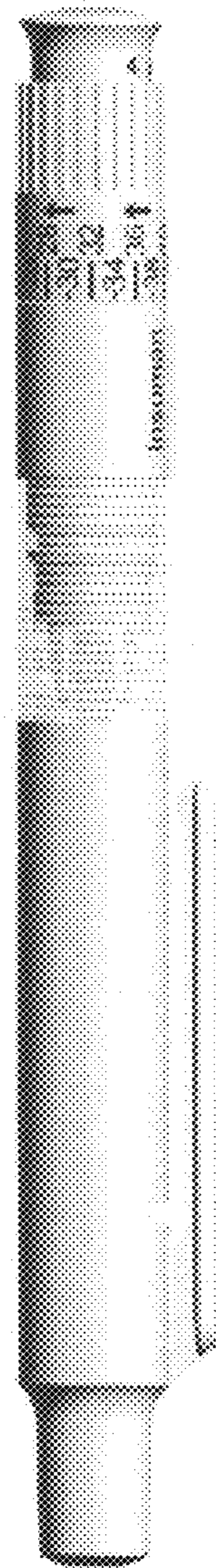
**FIG. 55**



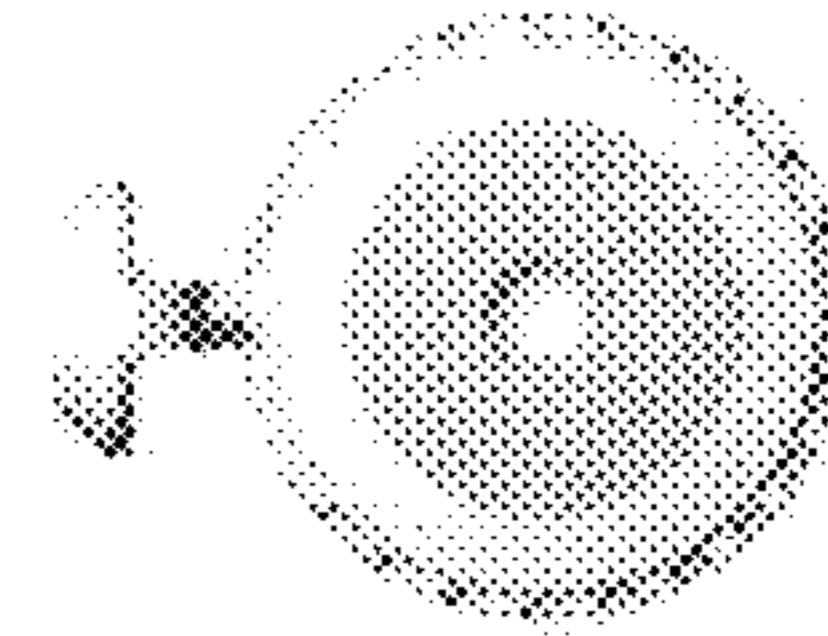
**FIG. 56**



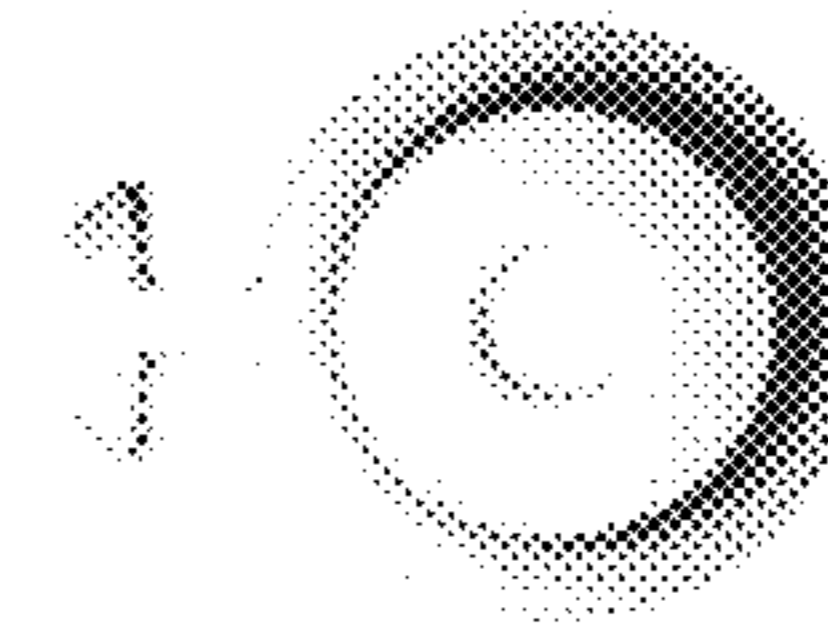
**FIG. 57**



**FIG. 58**

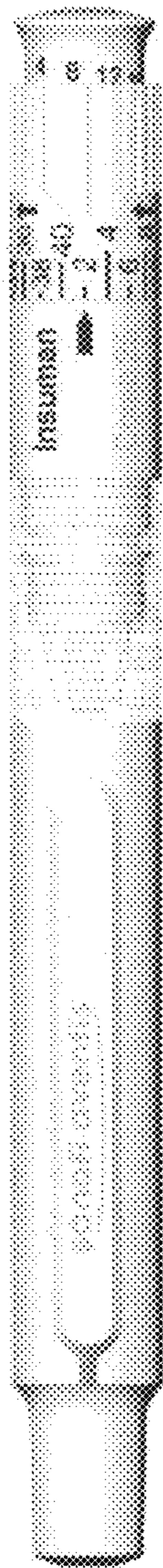


**FIG. 59**

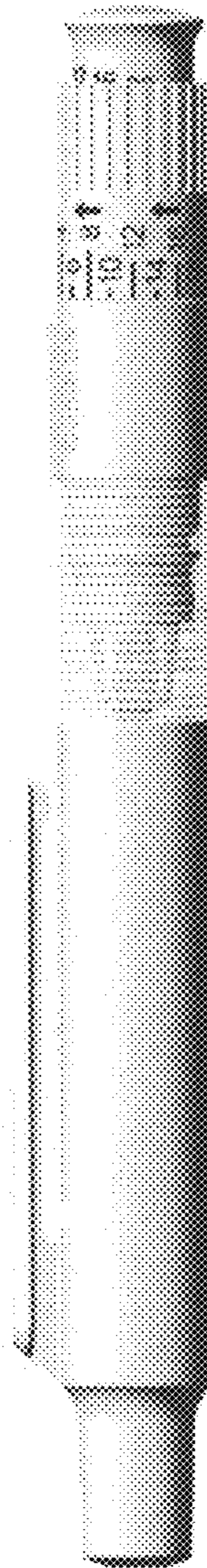


**FIG. 60**

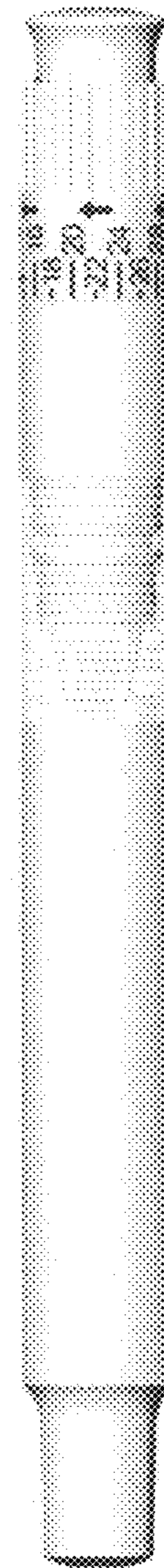




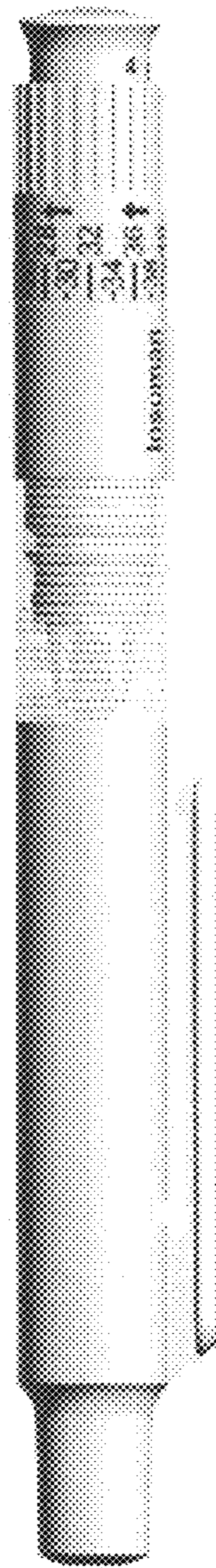
**FIG. 61**



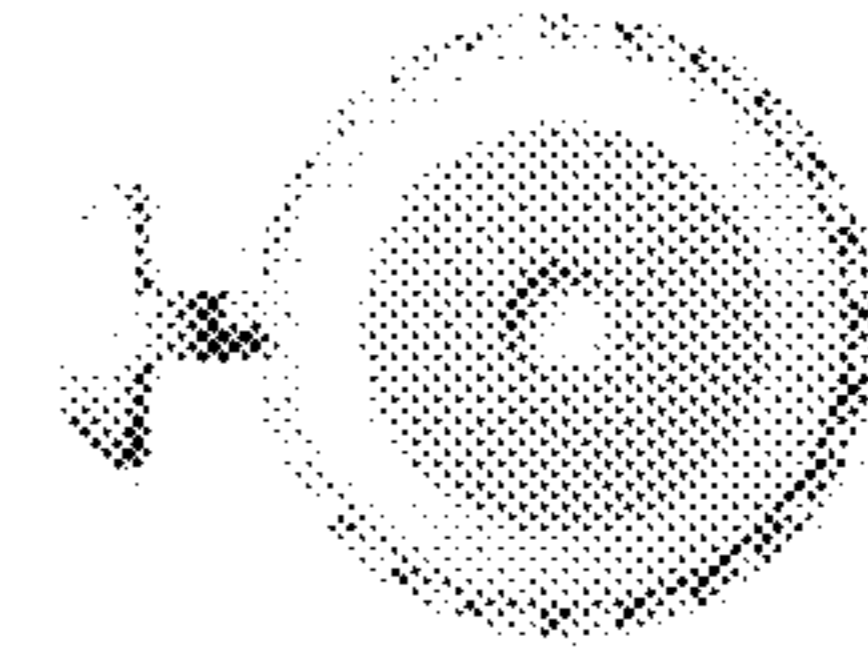
**FIG. 62**



**FIG. 63**



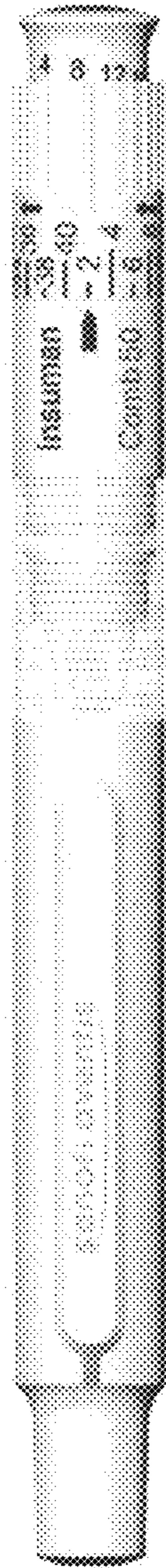
**FIG. 64**



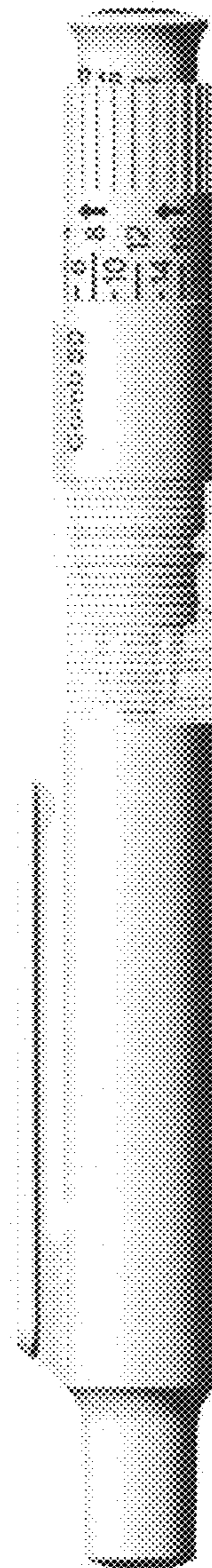
**FIG. 65**



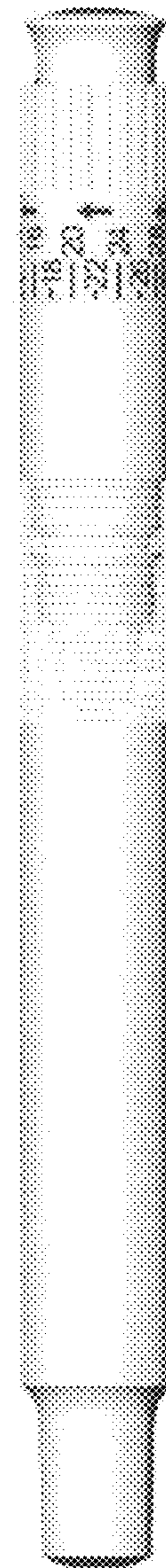
**FIG. 66**



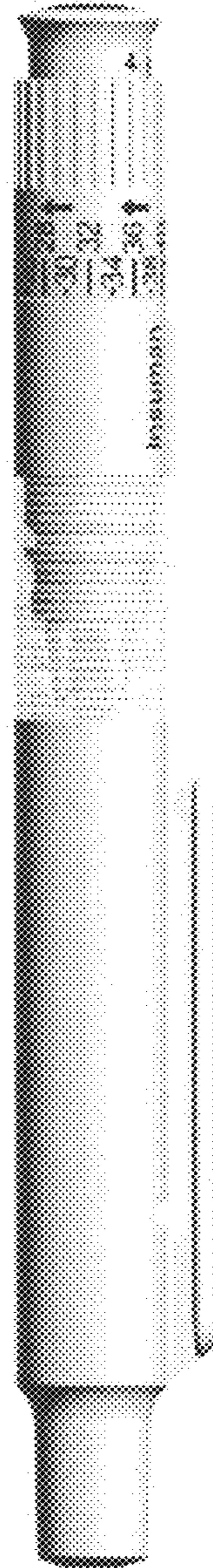
**FIG. 67**



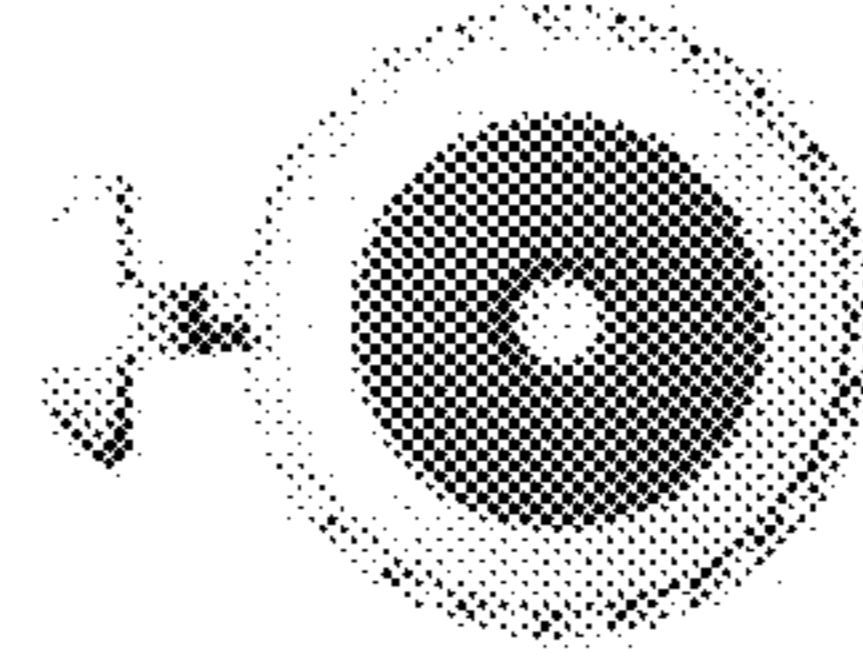
**FIG. 68**



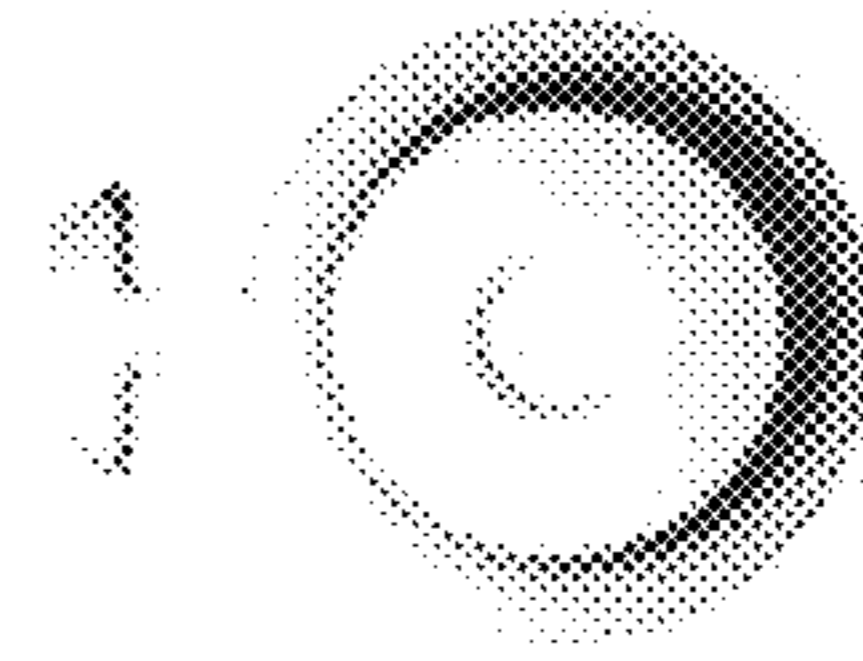
**FIG. 69**



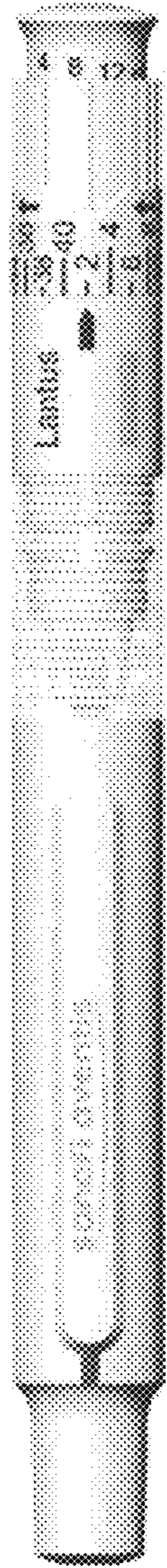
**FIG. 70**



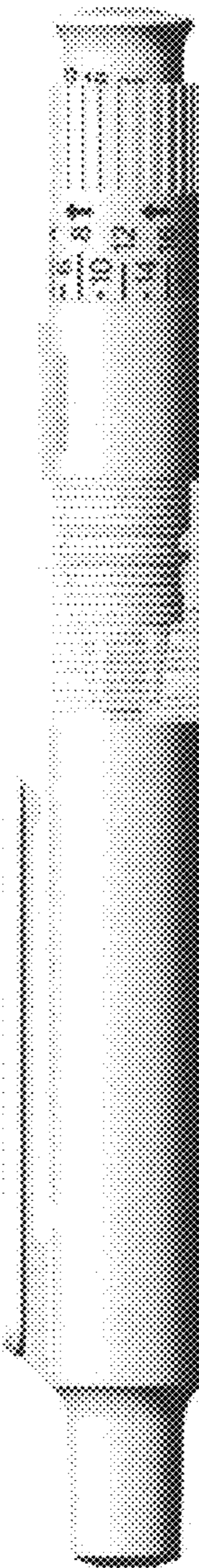
**FIG. 71**



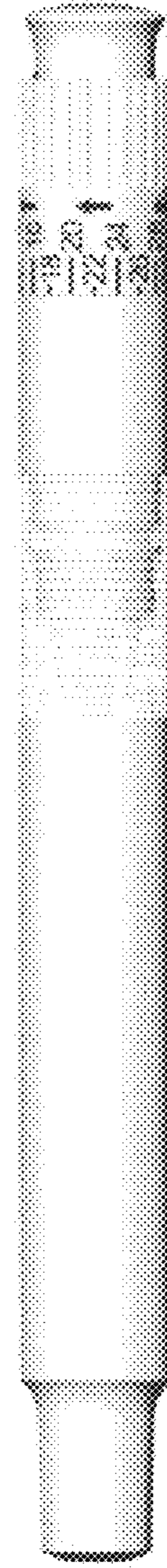
**FIG. 72**



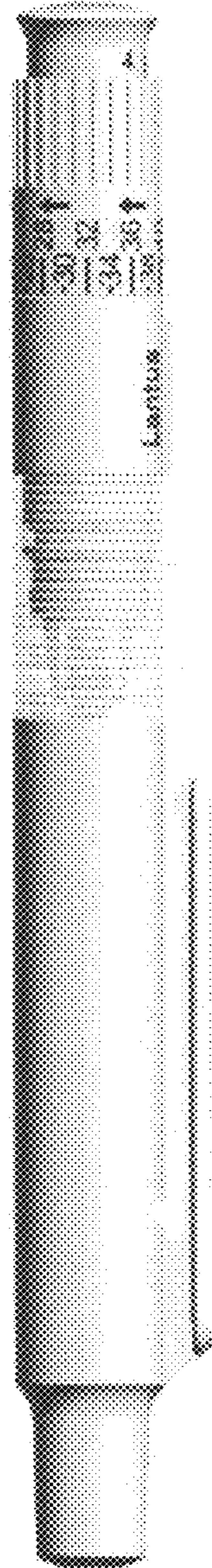
**FIG. 73**



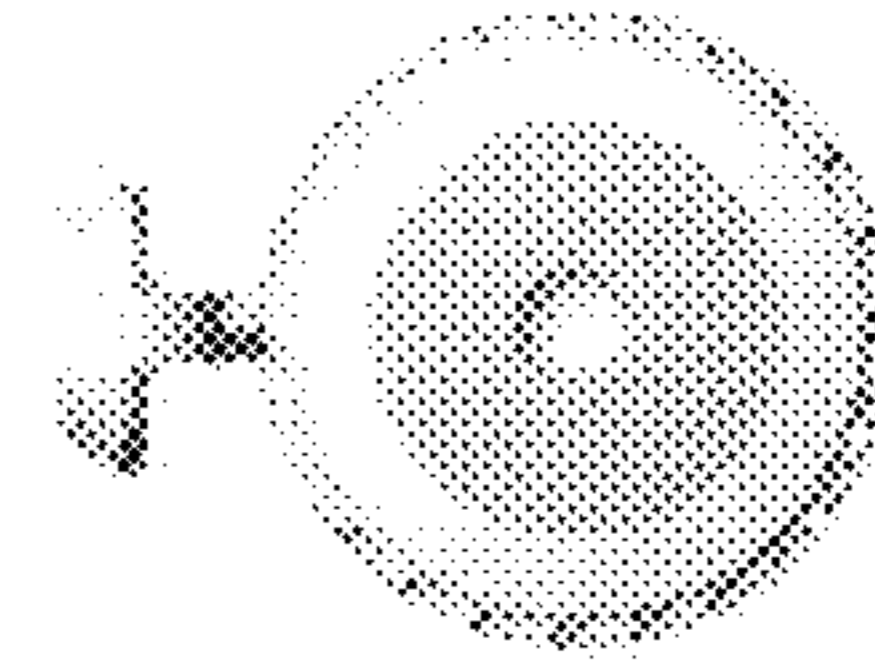
**FIG. 74**



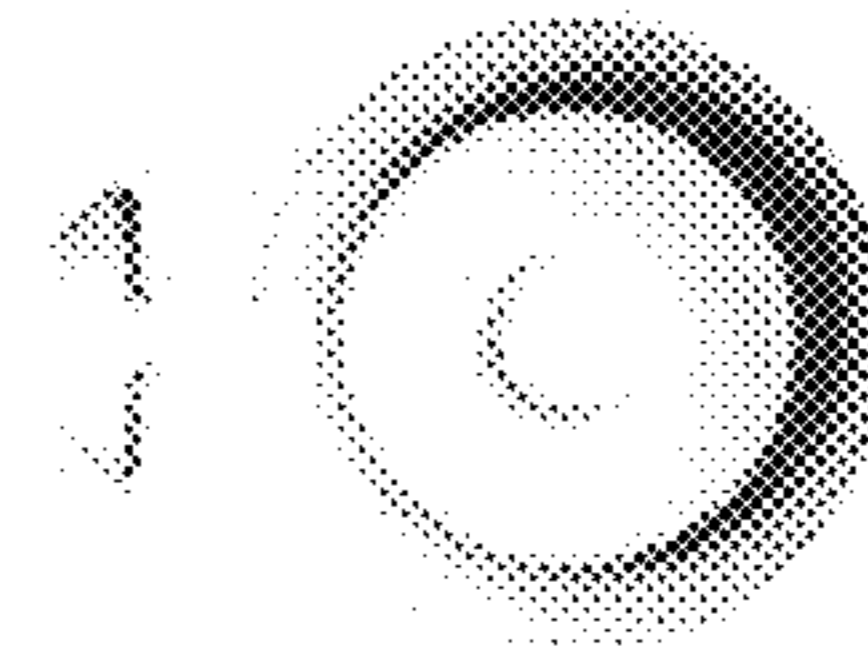
**FIG. 75**



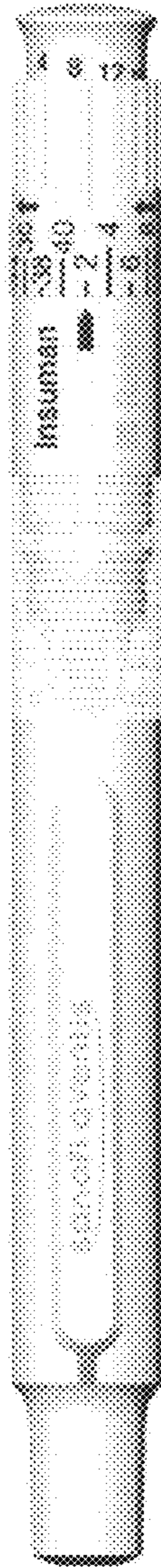
**FIG. 76**



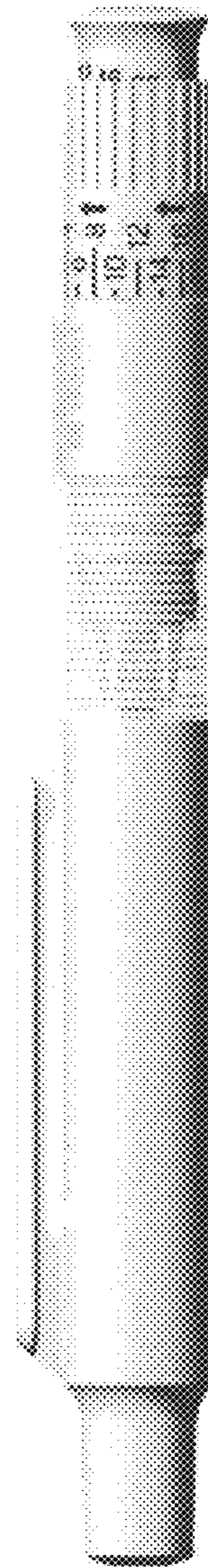
**FIG. 77**



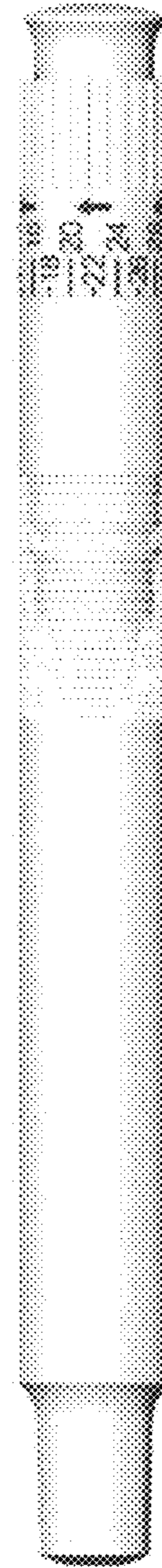
**FIG. 78**



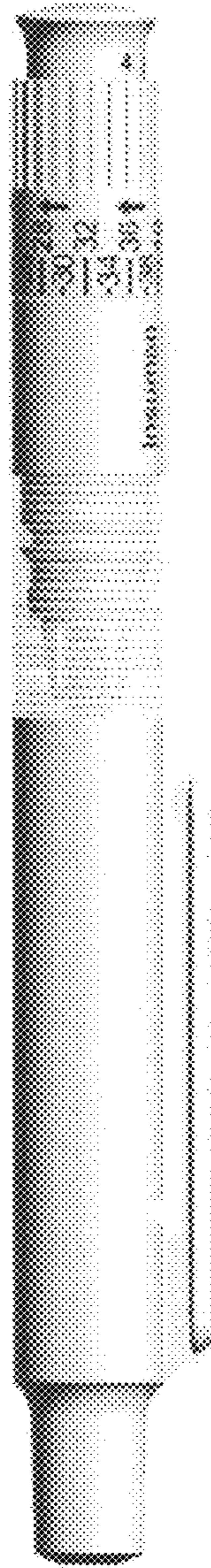
**FIG. 79**



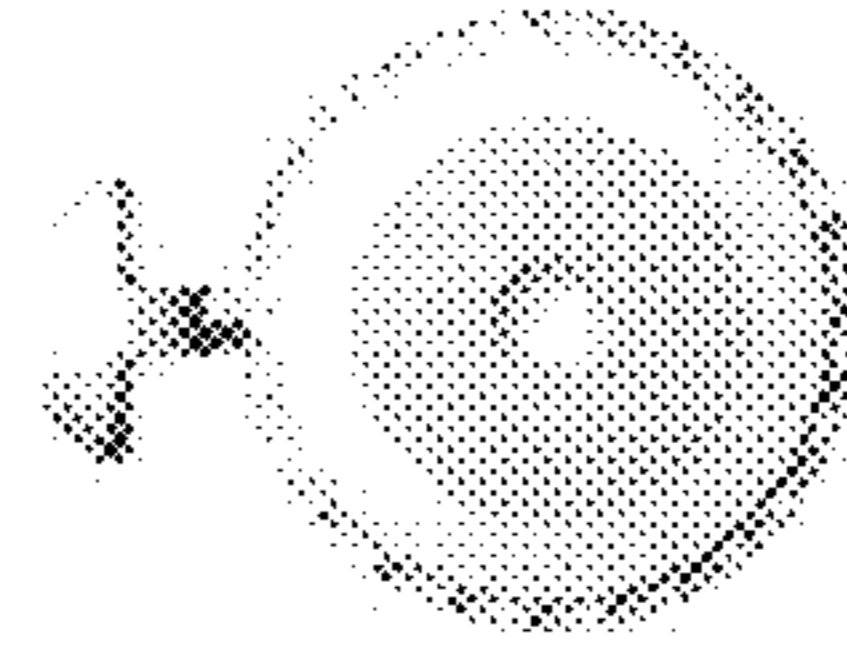
**FIG. 80**



**FIG. 81**



**FIG. 82**

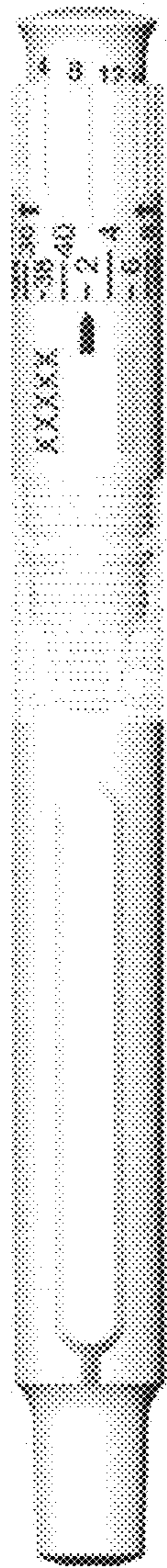


**FIG. 83**

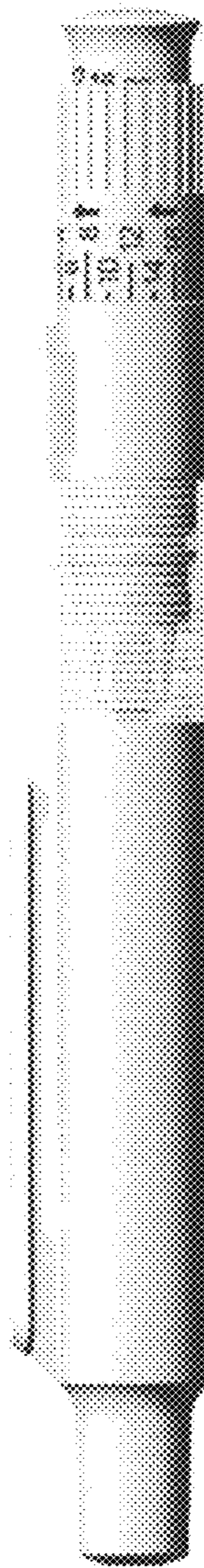


**FIG. 84**

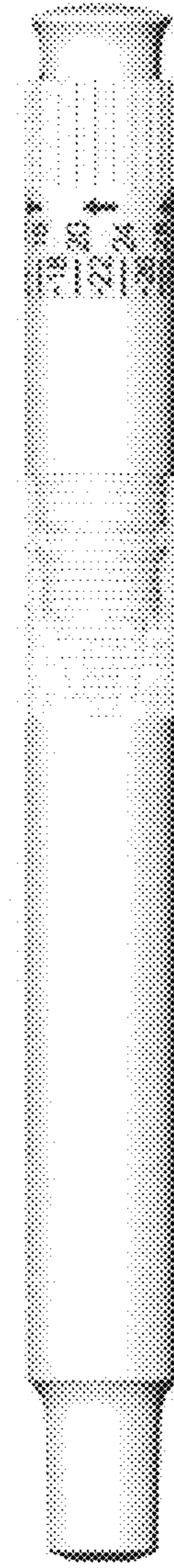




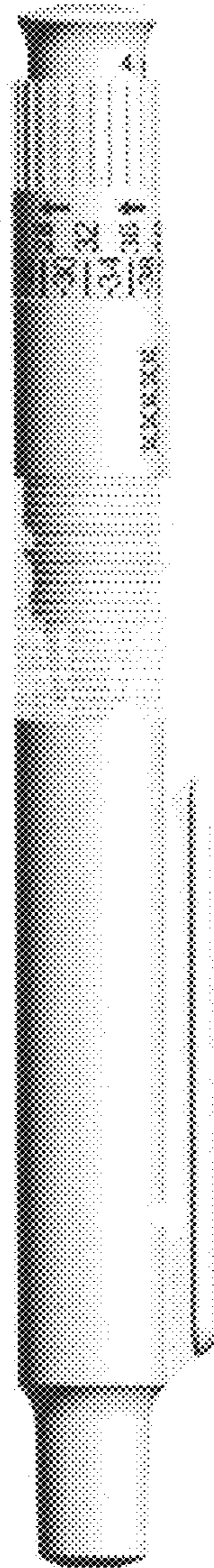
**FIG. 85**



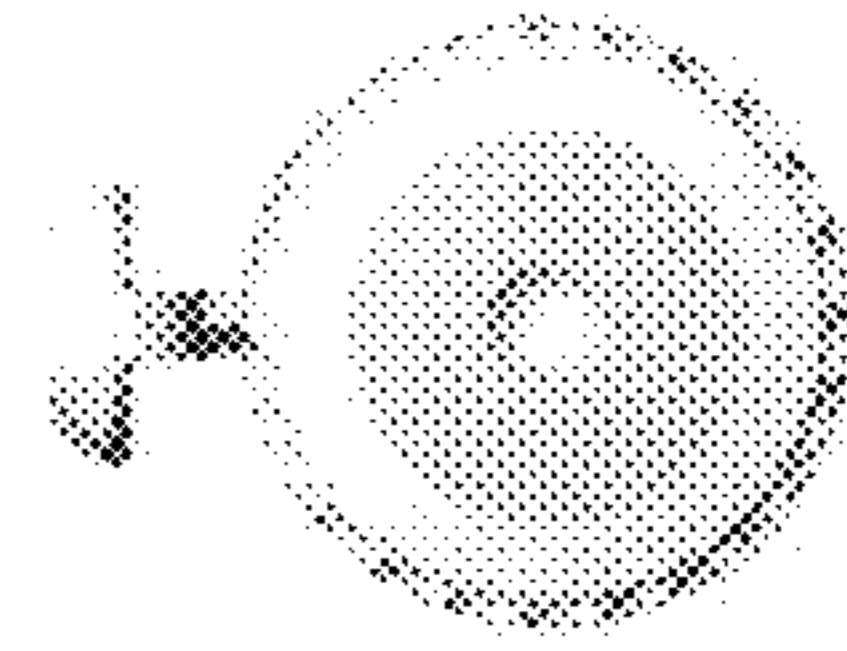
**FIG. 86**



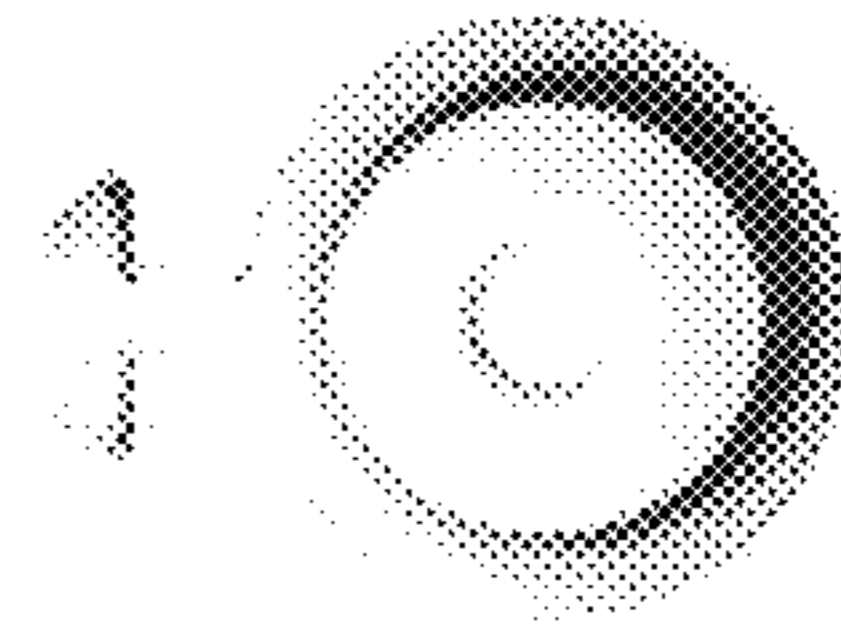
**FIG. 87**



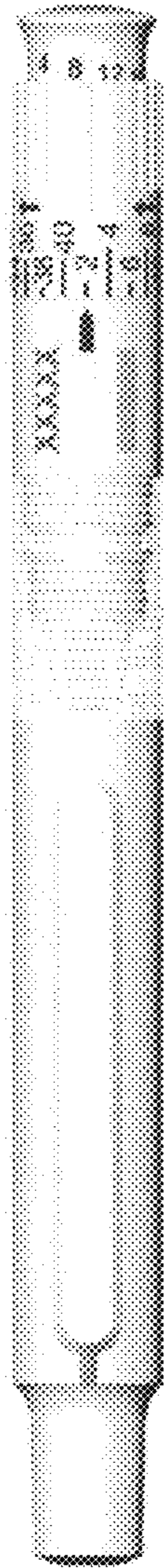
**FIG. 88**



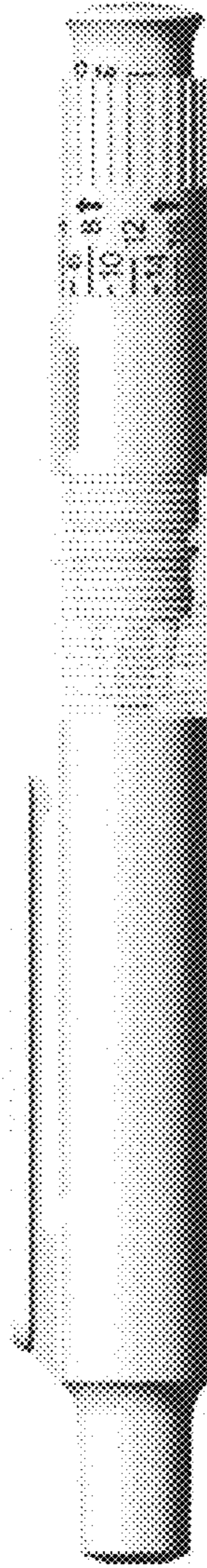
**FIG. 89**



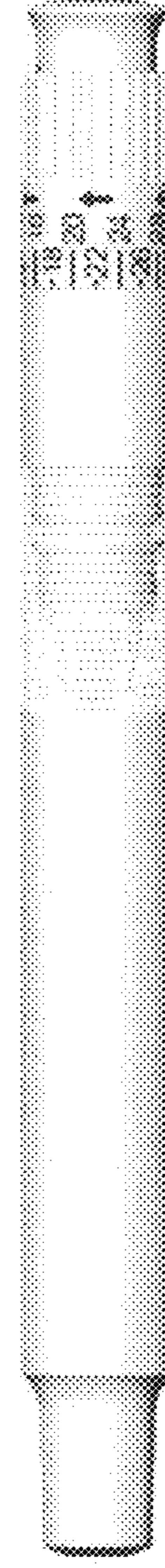
**FIG. 90**



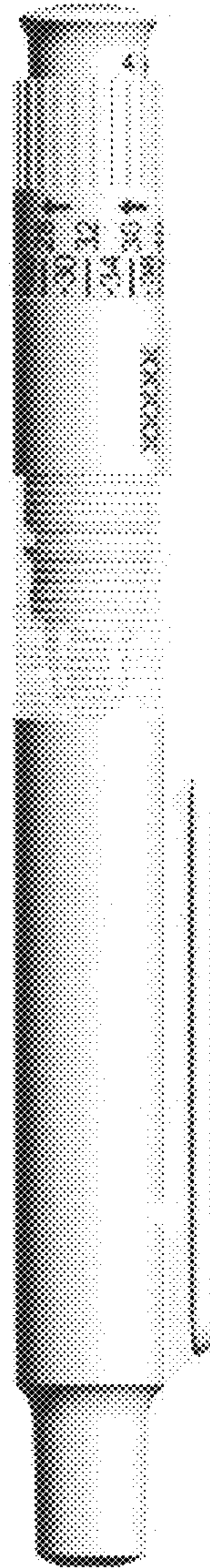
**FIG. 91**



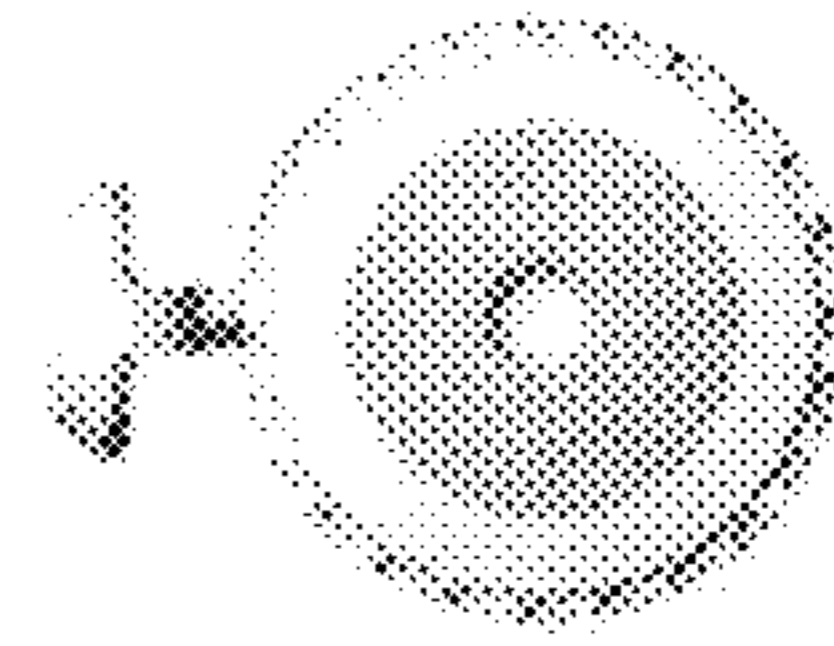
**FIG. 92**



**FIG. 93**



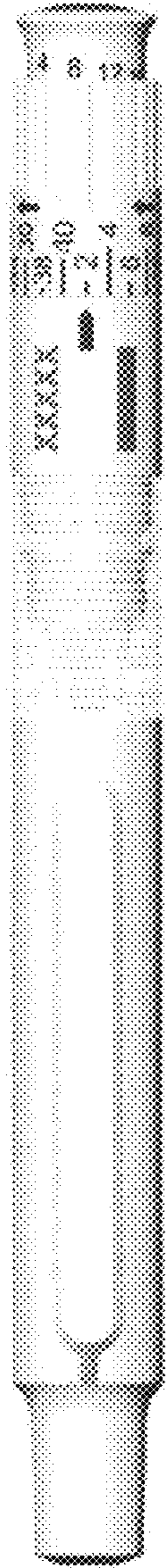
**FIG. 94**



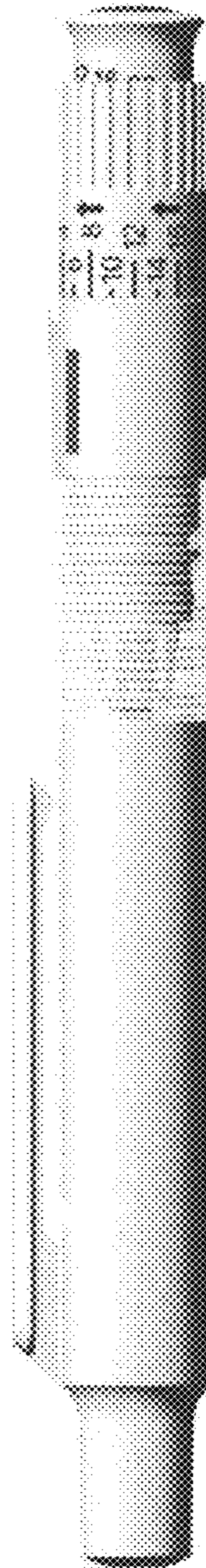
**FIG. 95**



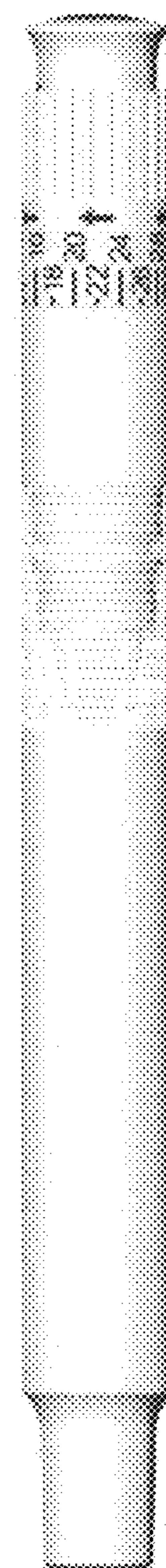
**FIG. 96**



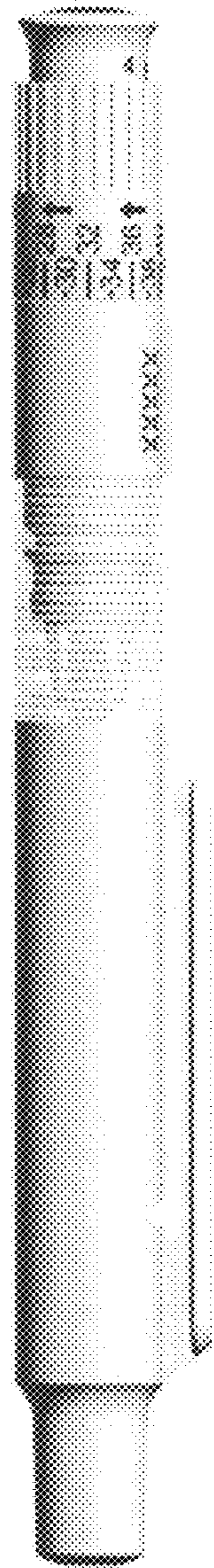
**FIG. 97**



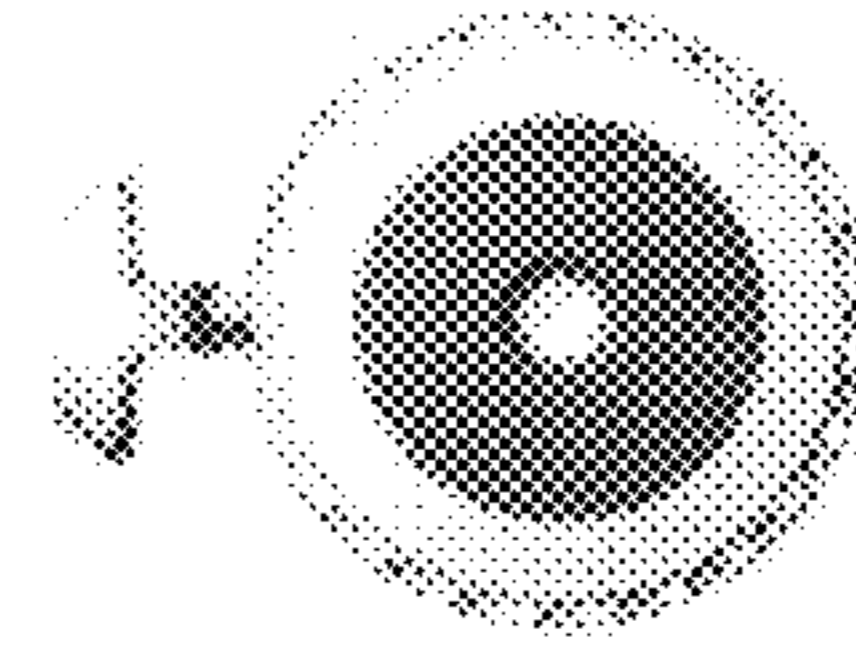
**FIG. 98**



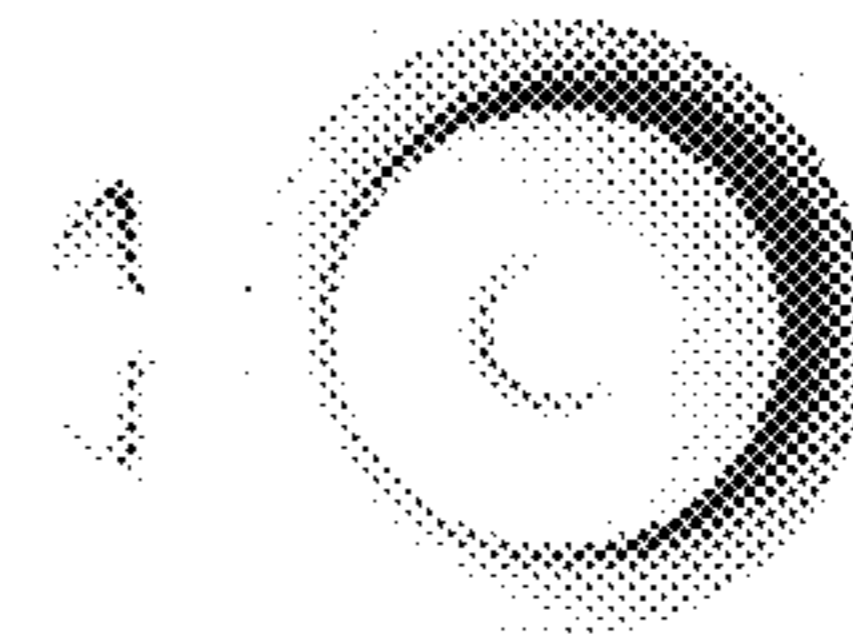
**FIG. 99**



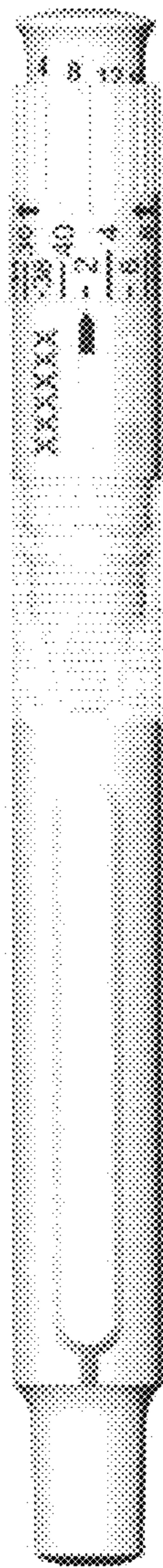
**FIG. 100**



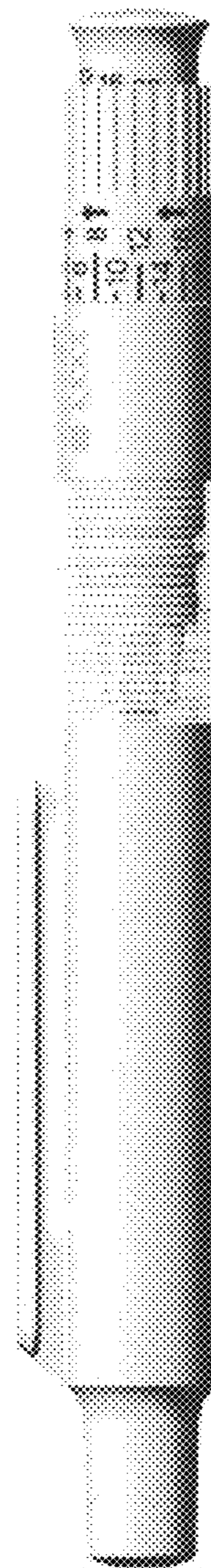
**FIG. 101**



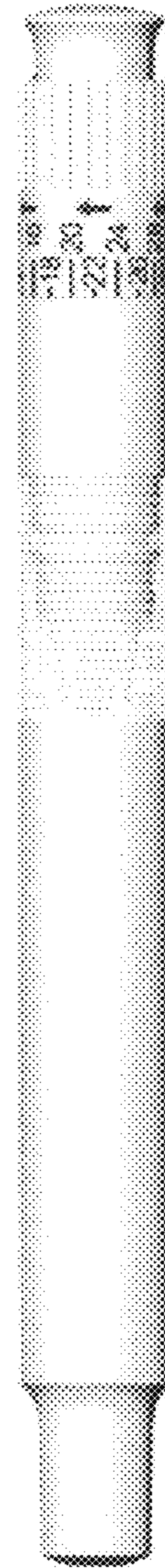
**FIG. 102**



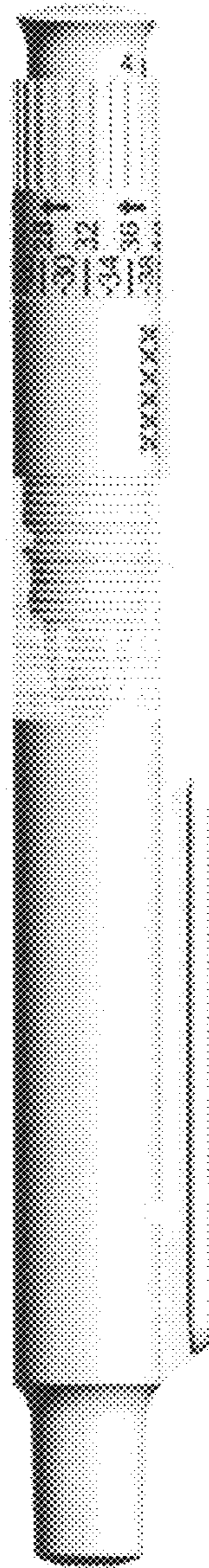
**FIG. 103**



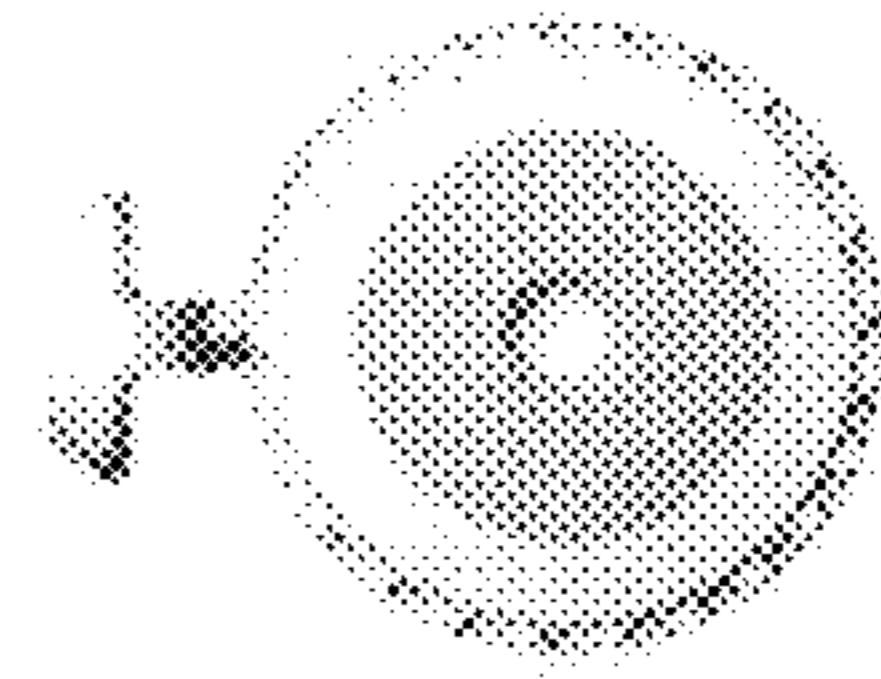
**FIG. 104**



**FIG. 105**



**FIG. 106**

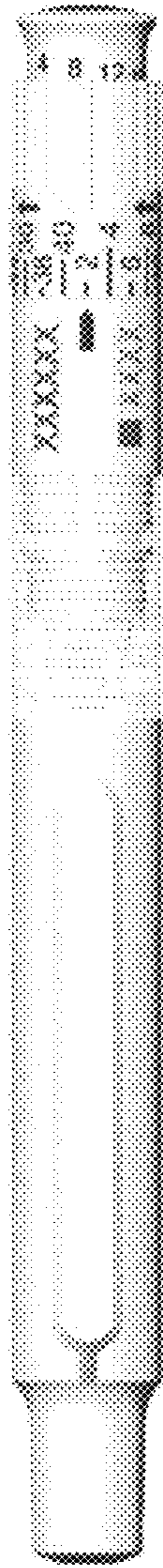


**FIG. 107**

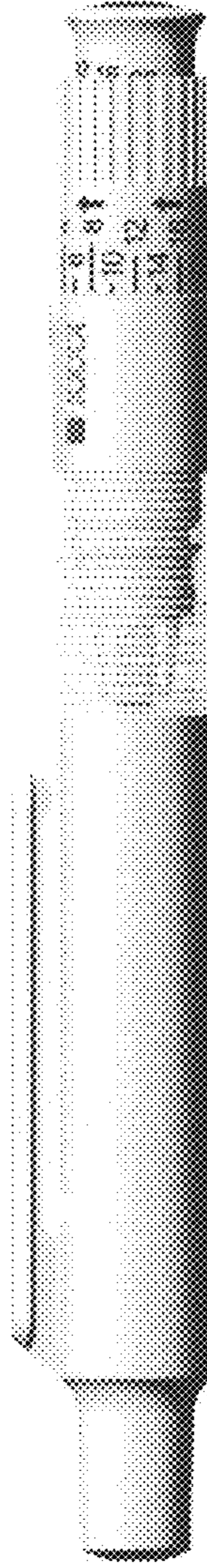


**FIG. 108**

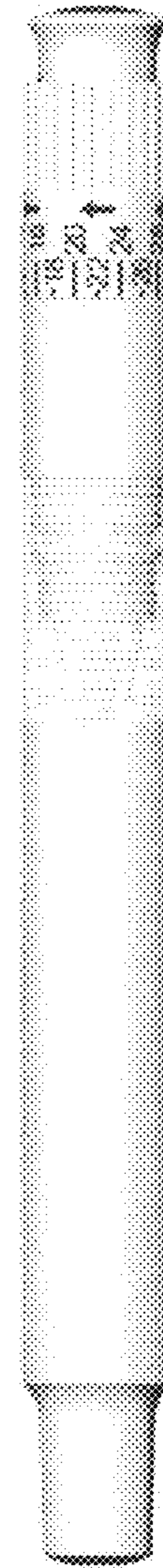




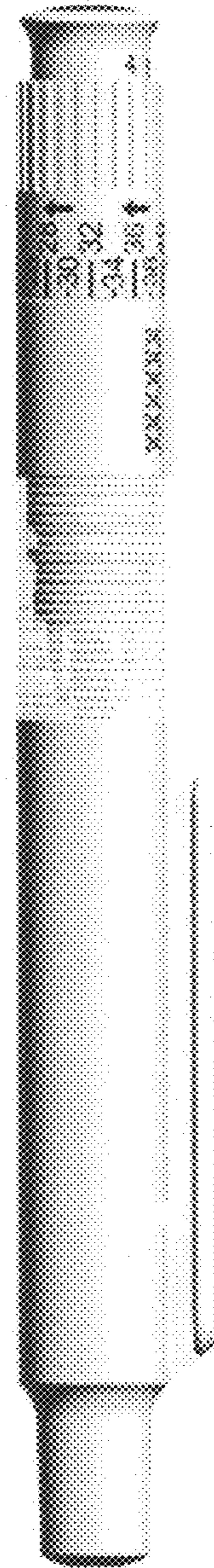
**FIG. 109**



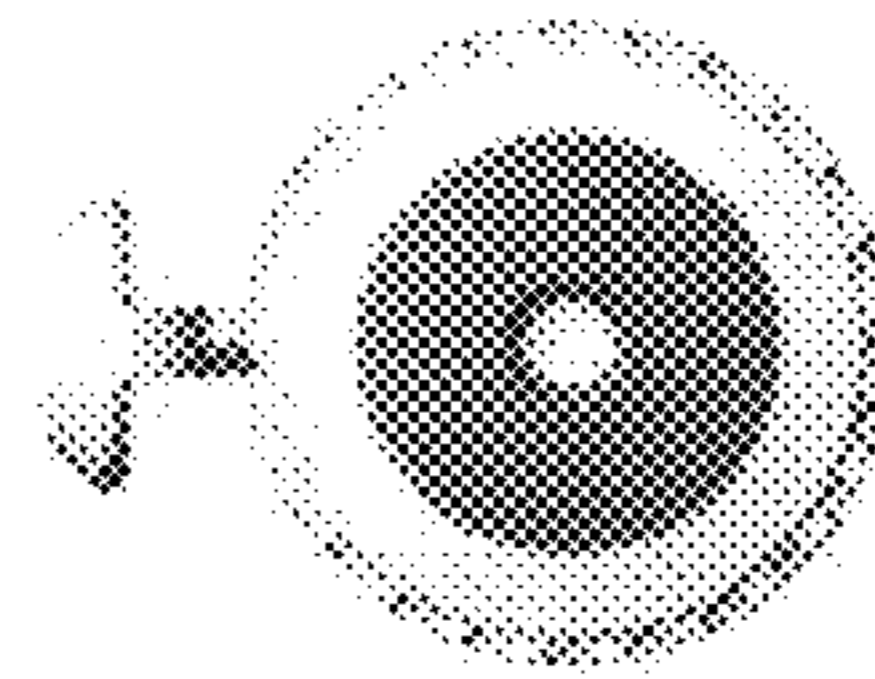
**FIG. 110**



**FIG. 111**



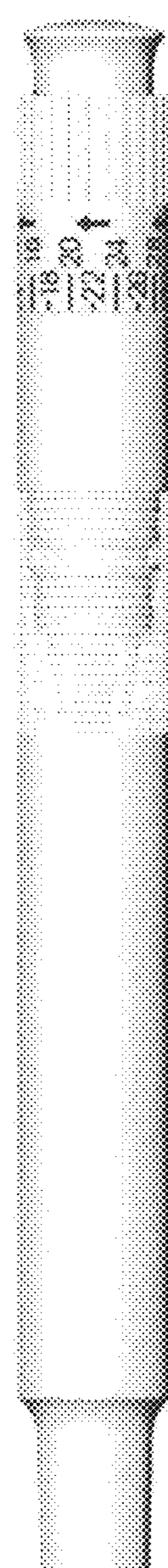
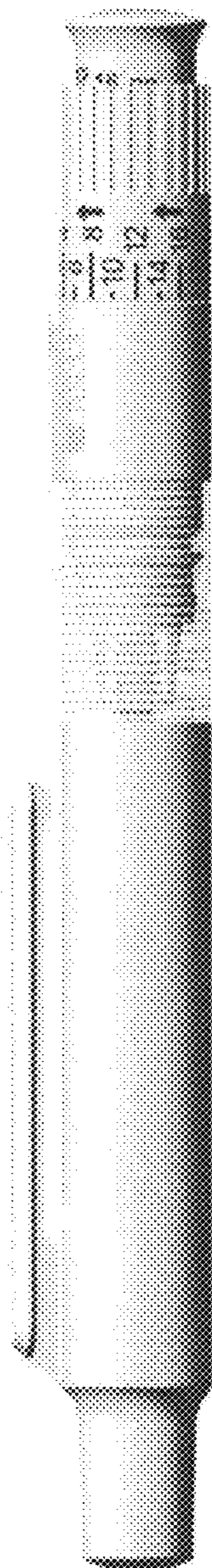
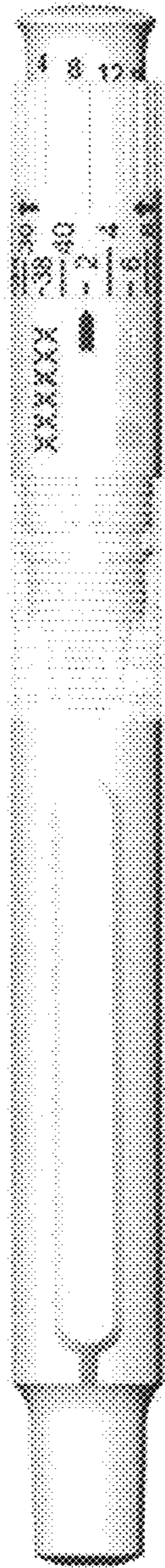
**FIG. 112**



**FIG. 113**



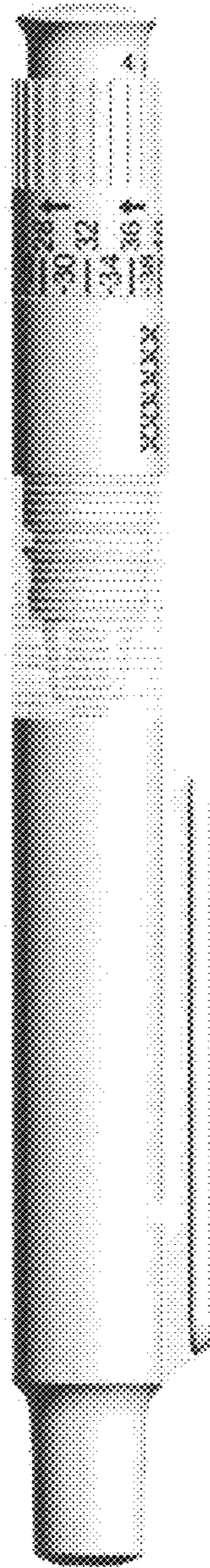
**FIG. 114**



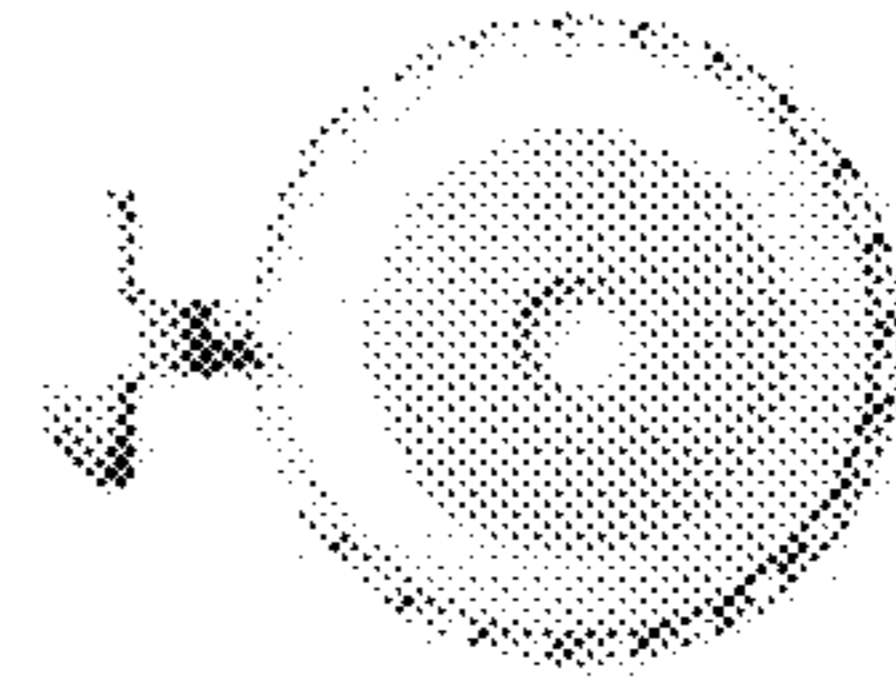
**FIG. 115**

**FIG. 116**

**FIG. 117**



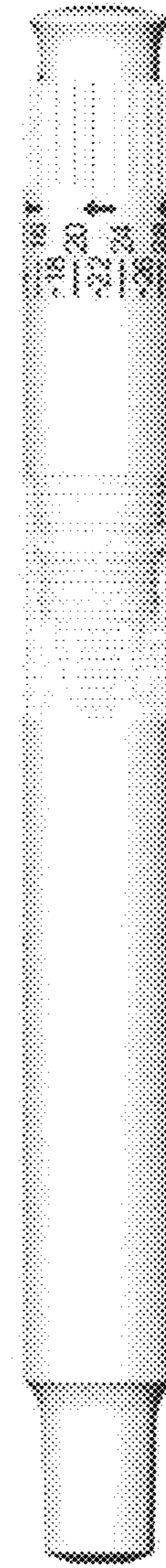
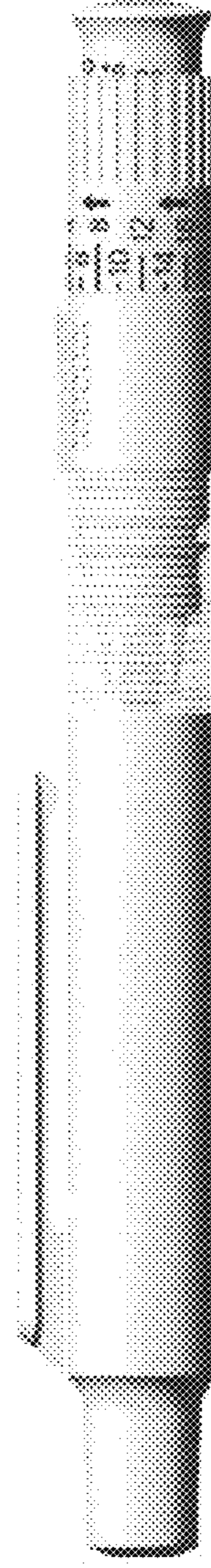
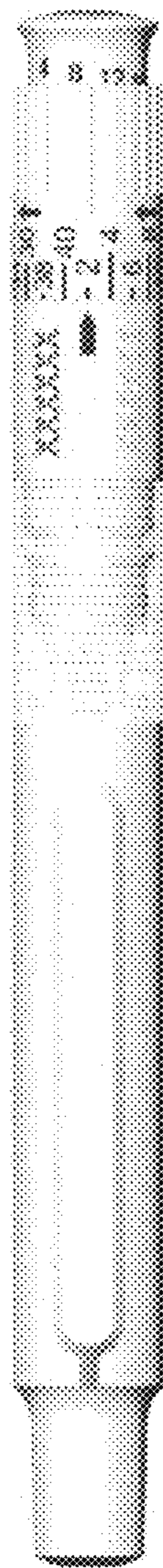
**FIG. 118**



**FIG. 119**



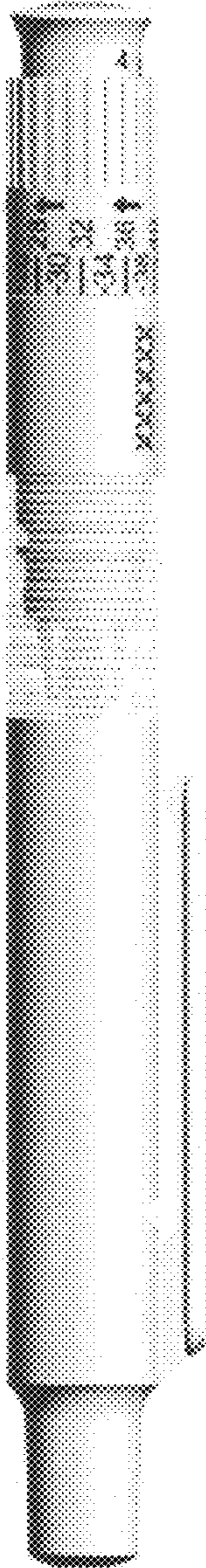
**FIG. 120**



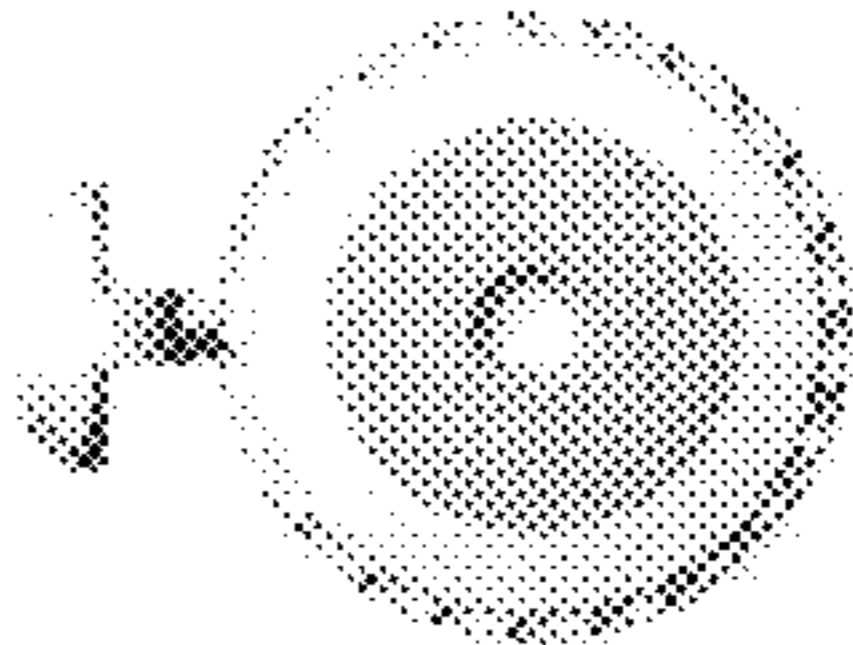
**FIG. 121**

**FIG. 122**

**FIG. 123**



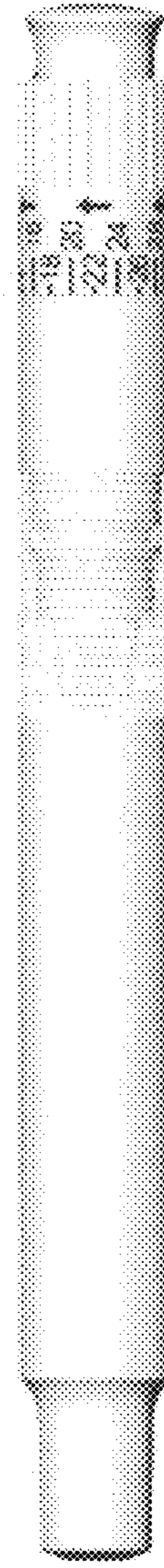
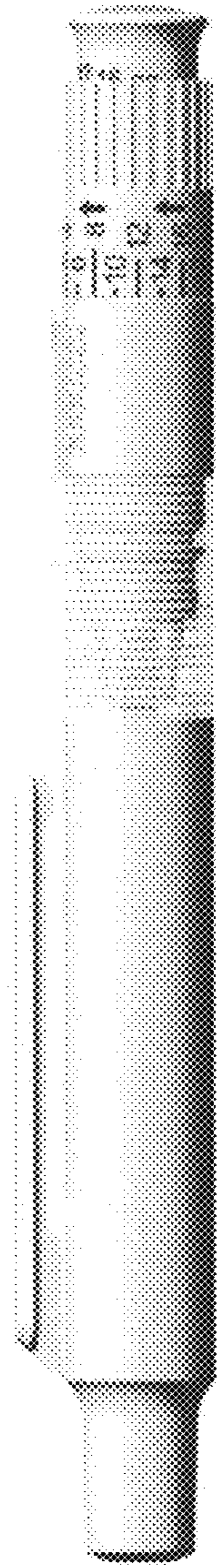
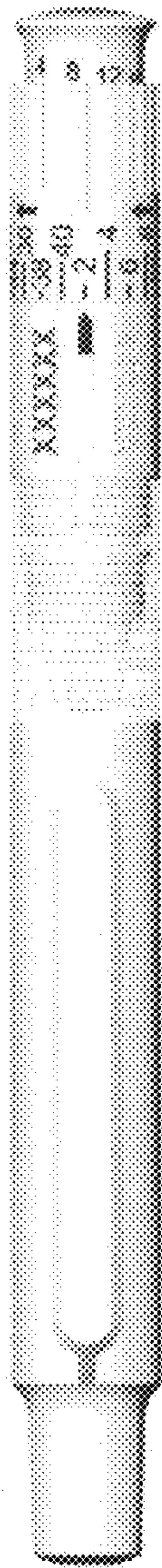
**FIG. 124**



**FIG. 125**



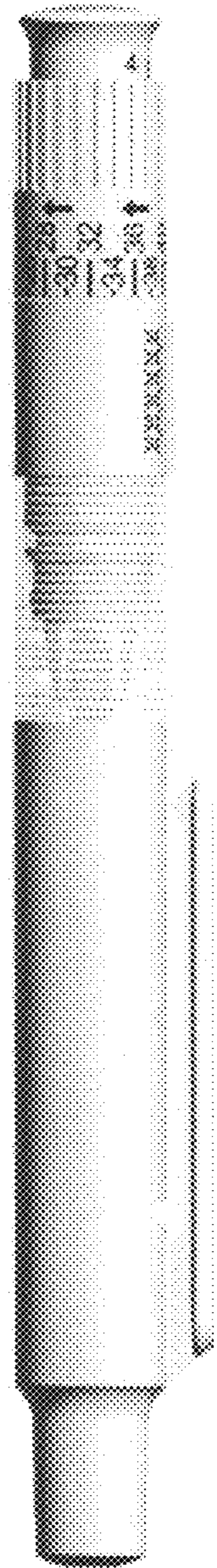
**FIG. 126**



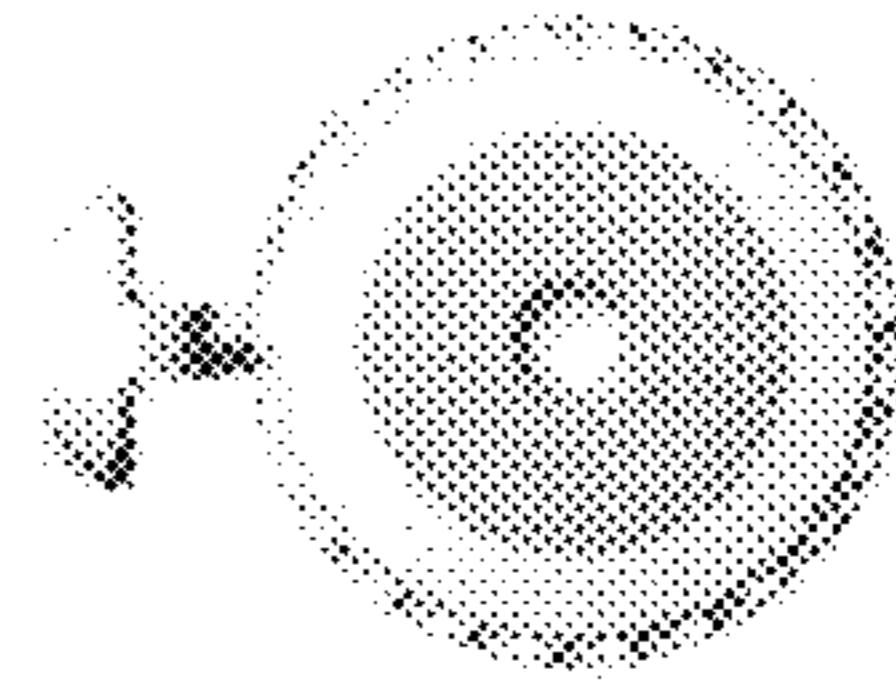
**FIG. 127**

**FIG. 128**

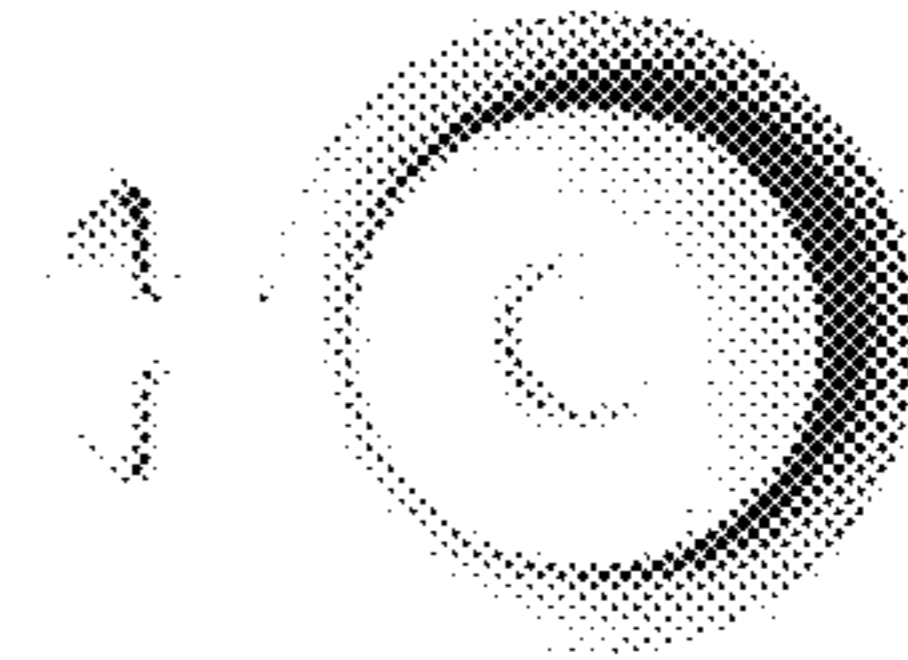
**FIG. 129**



**FIG. 130**

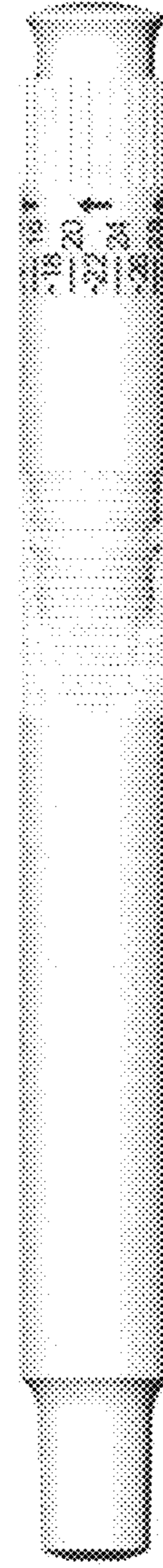
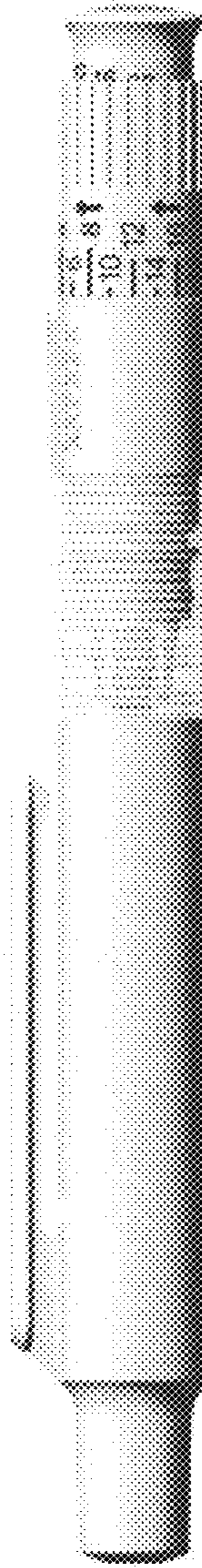
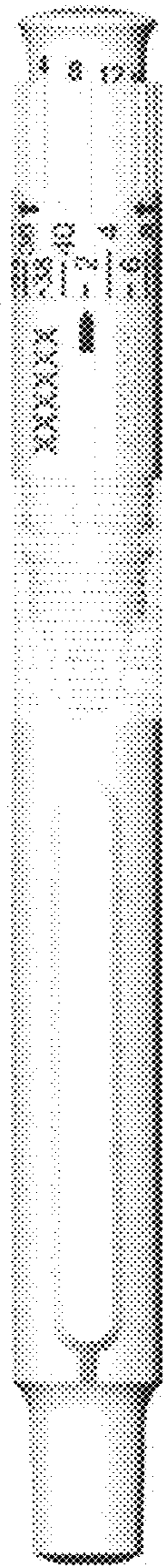


**FIG. 131**



**FIG. 132**

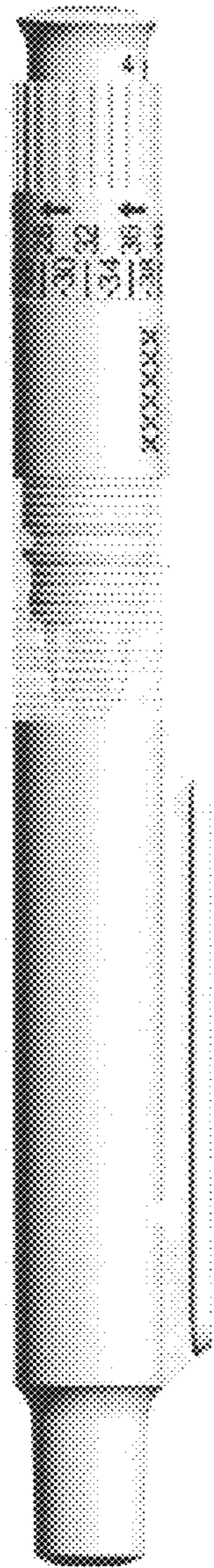




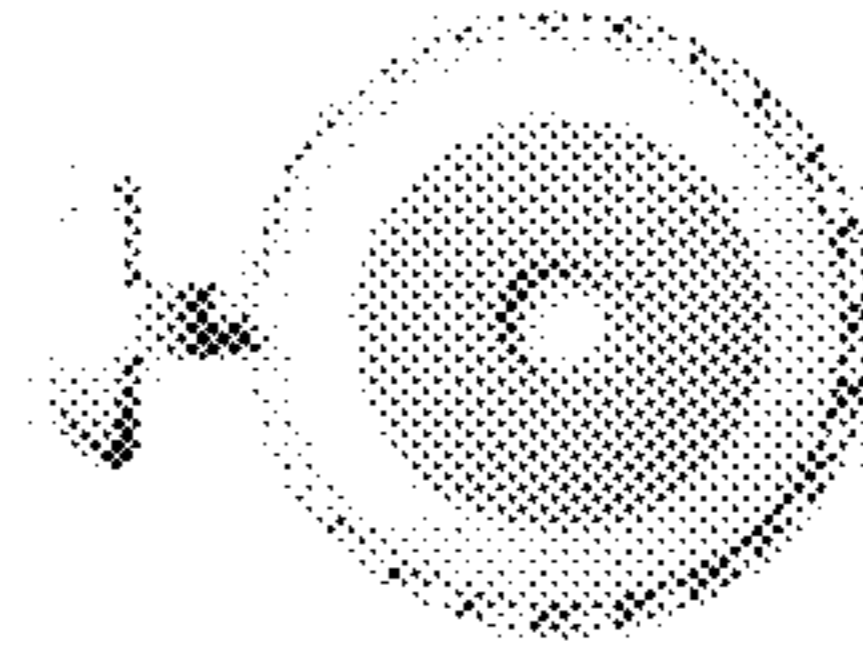
**FIG. 133**

**FIG. 134**

**FIG. 135**



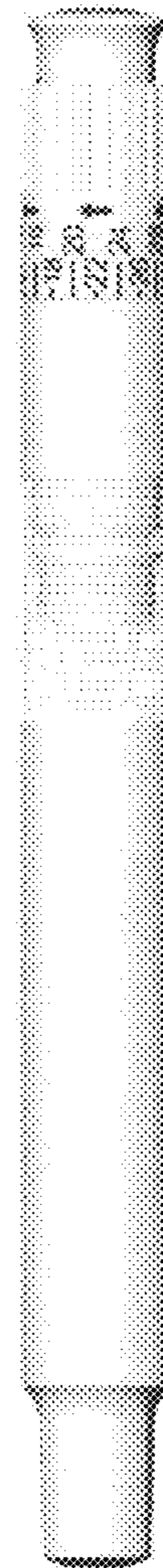
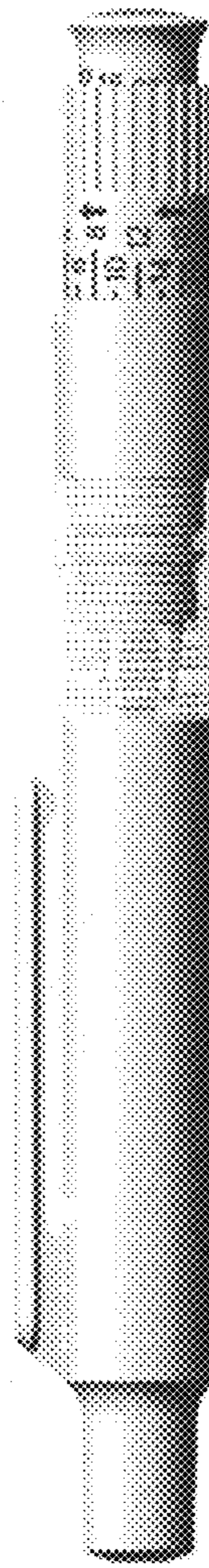
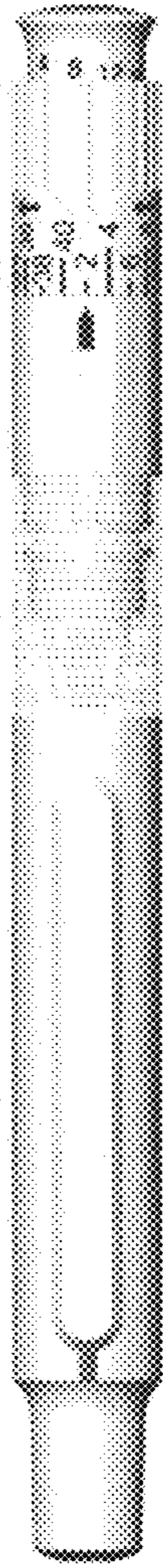
**FIG. 136**



**FIG. 137**



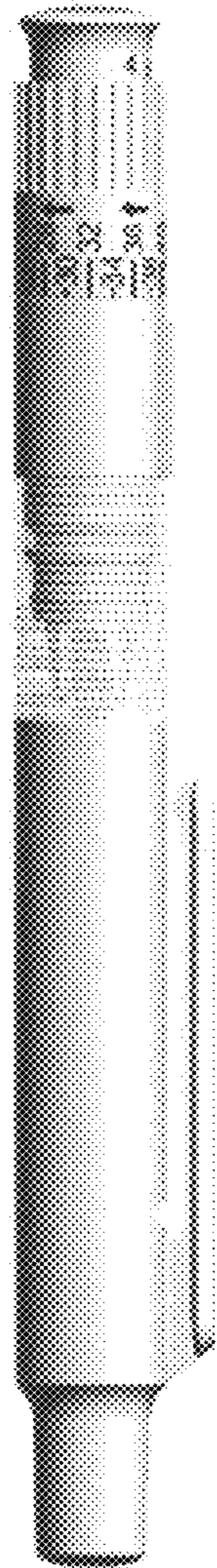
**FIG. 138**



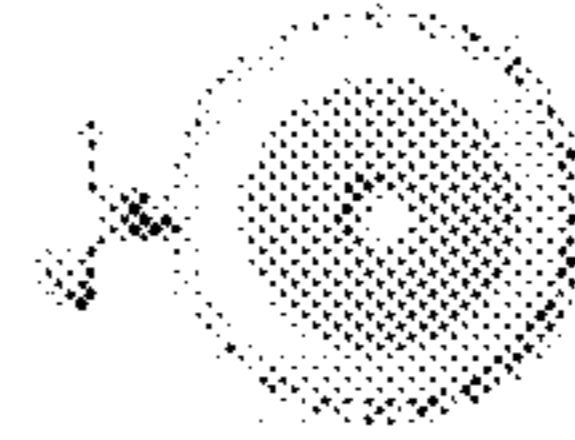
**FIG. 139**

**FIG. 140**

**FIG. 141**



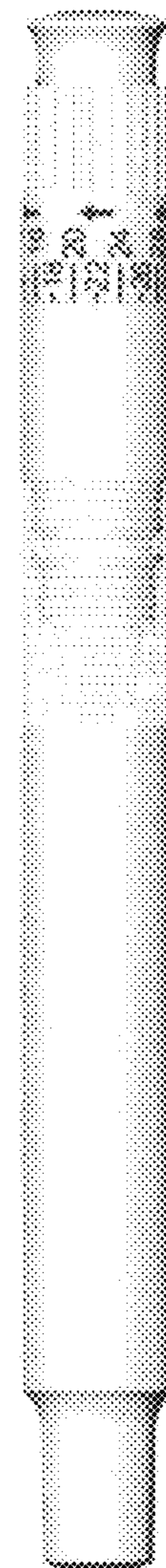
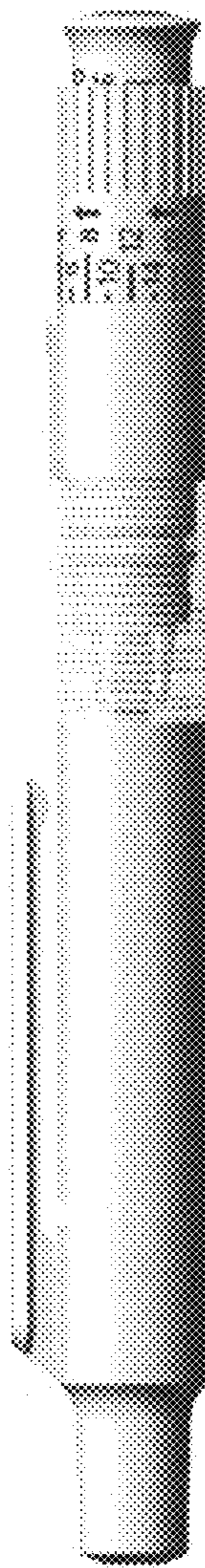
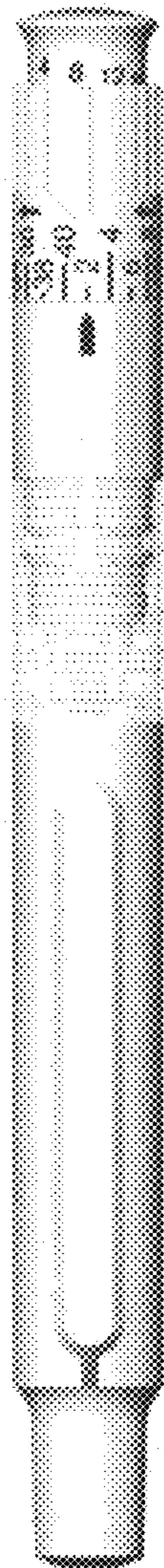
**FIG. 142**



**FIG. 143**



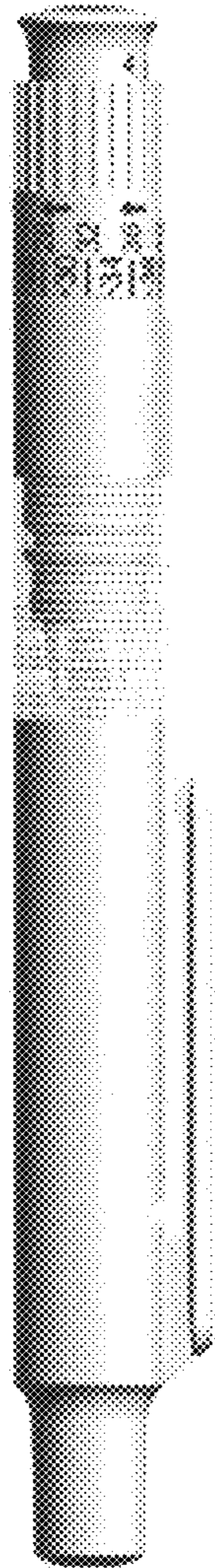
**FIG. 144**



**FIG. 145**

**FIG. 146**

**FIG. 147**



**FIG. 148**



**FIG. 149**



**FIG. 150**