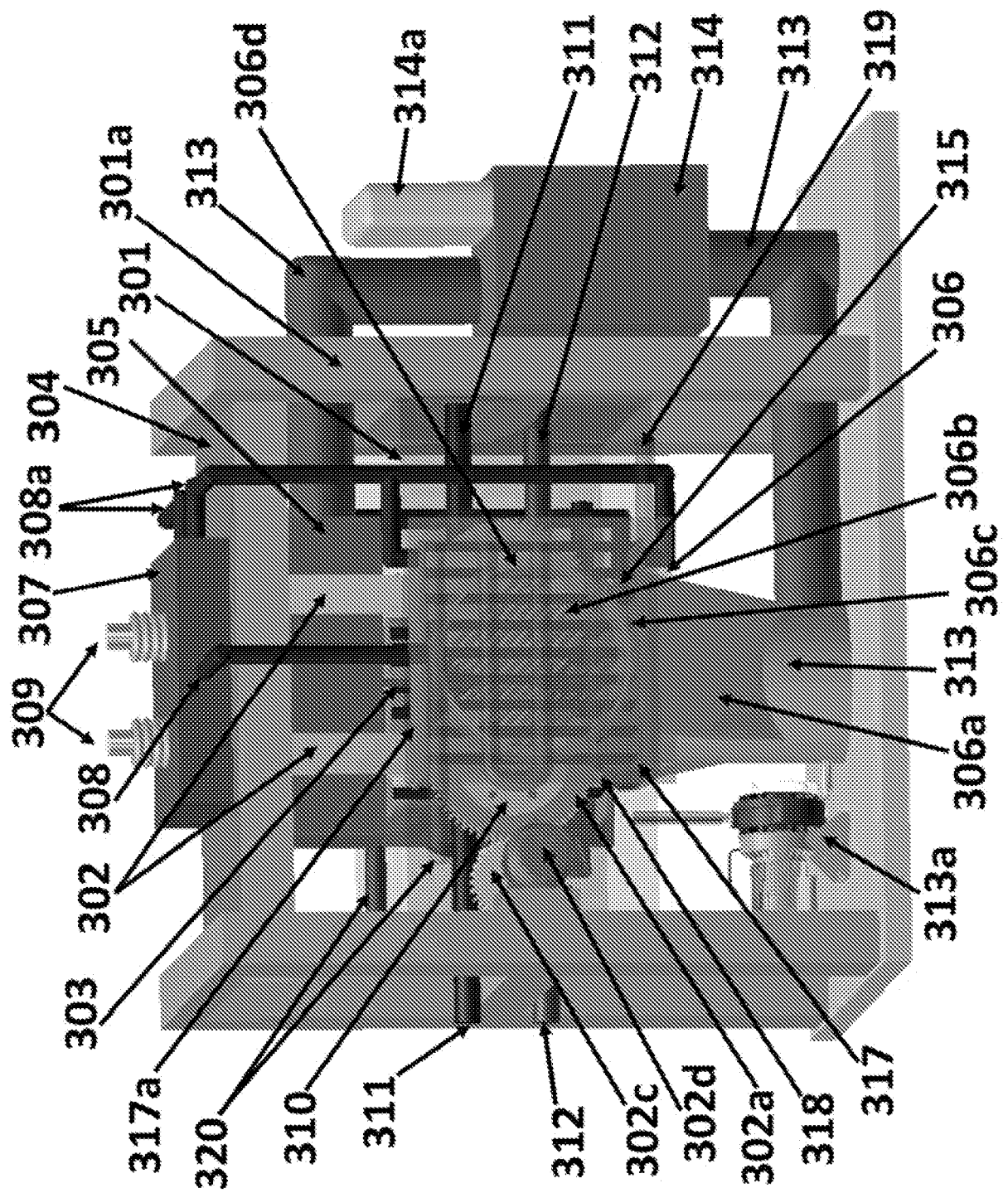




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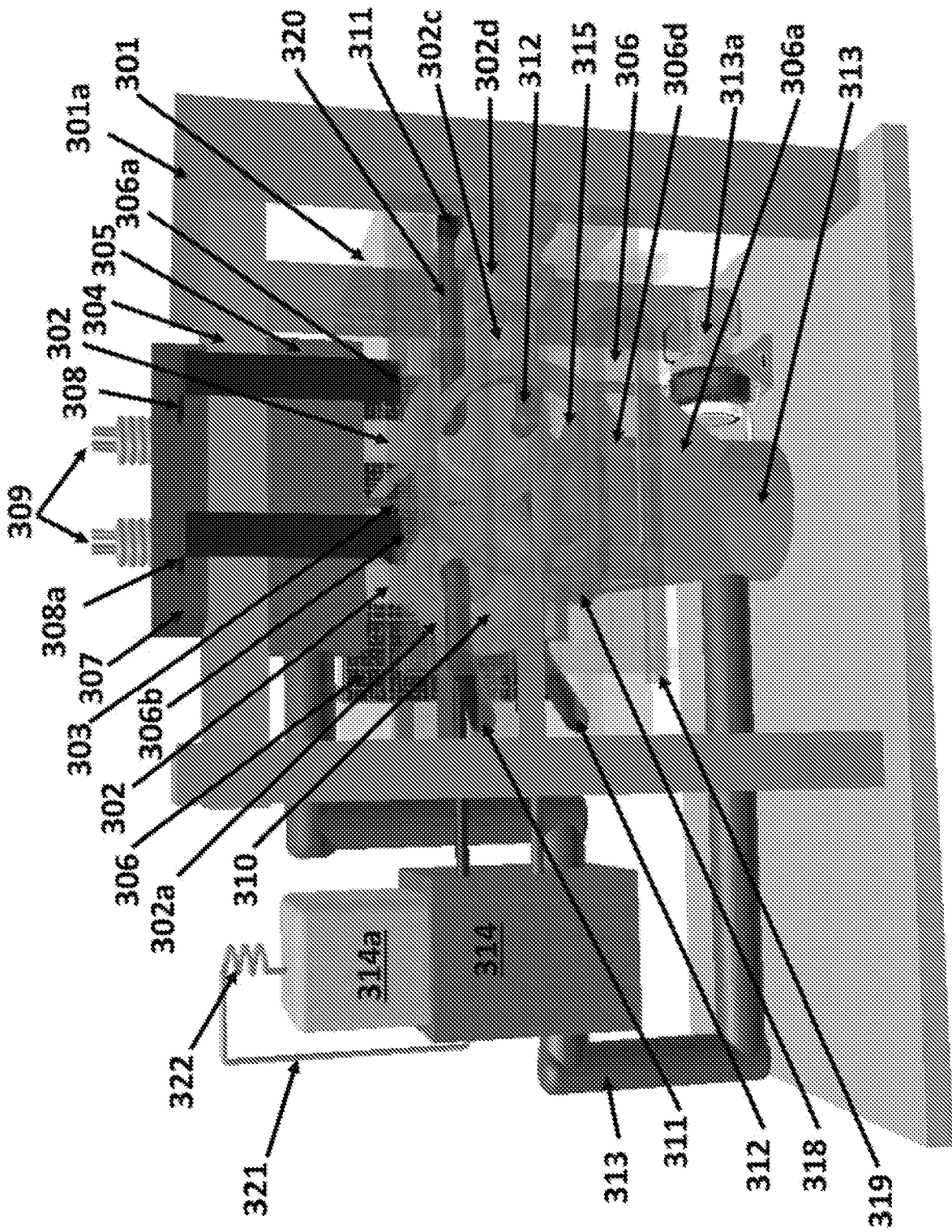
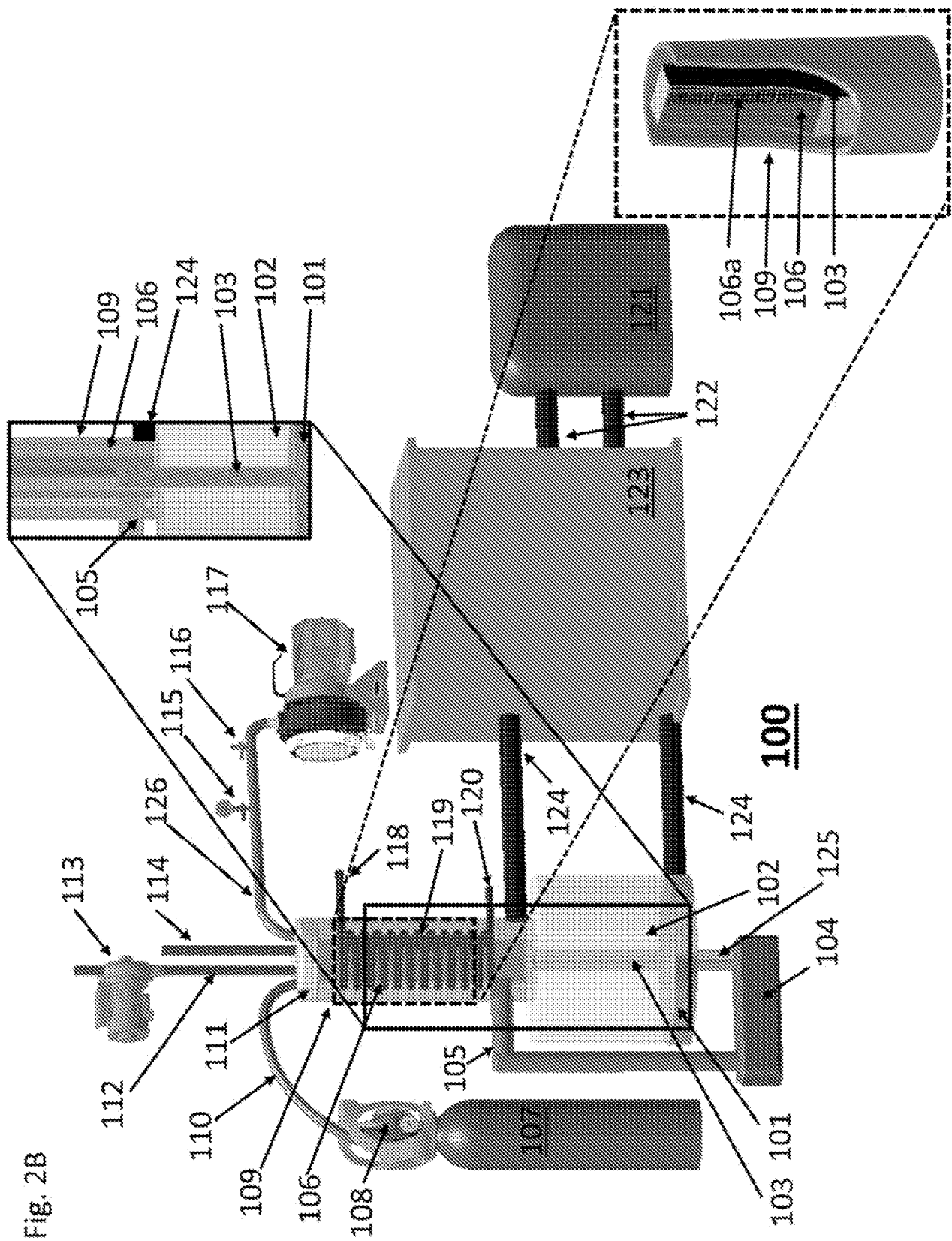


Fig. 2A



28  
11.05  
11

Fig. 2C

1. Structural Support
2. Source of Electrical Power
3. Output Power Controller/Conditioner
4. Bearing Support for Roller Shaft
5. Trough
6. Output Power Terminal
7. Roller Shaft
8. Roller Electrode
9. Negative Electrode Bus Bar
10. Positive Electrode Bus Bar
11. Water Reservoir
12. Roller Motor 1
13. Roller Motor 2
14. Parabolic Mirror
15. Photovoltaic Panel
16. Jet Water Line
17. Water Ejection Pump
18. Water Sucking Pump
19. Water Sucking Line
20. Window
21. Rinsing Line with Jets
22. Mirror Fastener
23. Semi-Transparent Mirror
24. Scraper and Collection Area
26. Cell

26a. Optical Distribution and Photovoltaic Conversion System

26b. PV Bus Bar

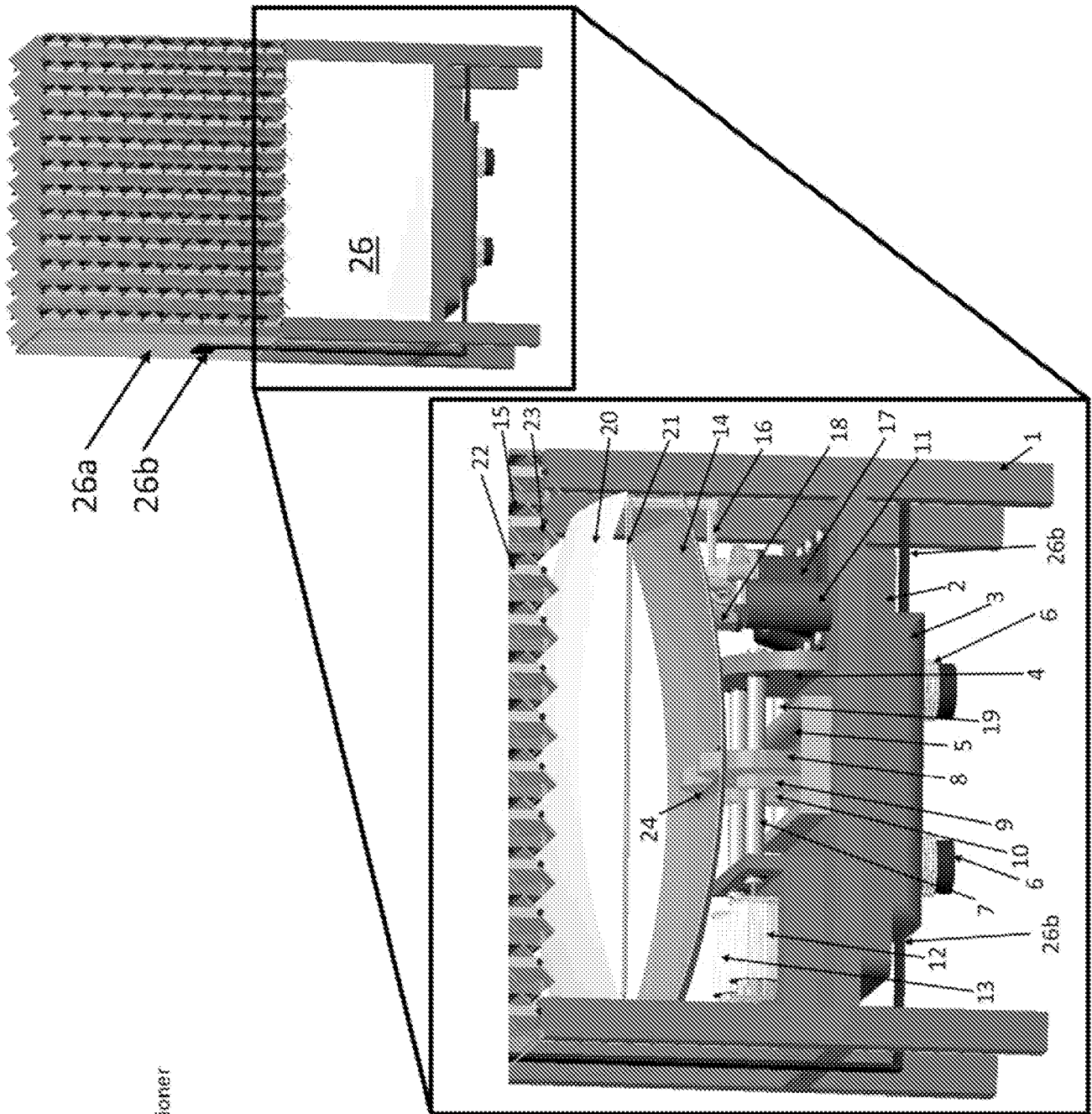


Fig. 2C1

1. Structural Support
2. Source of Electrical Power
3. Output Power Controller/Conditioner
4. Bearing Support for Roller Shaft
5. Trough
6. Output Power Terminal
7. Roller Shaft
8. Roller Electrode
9. Negative Electrode Bus Bar
10. Positive Electrode Bus Bar
11. Water Reservoir
12. Roller Motor 1
13. Roller Motor 2
14. Parabolic Mirror
15. Photovoltaic Panel
16. Jet Water Line
17. Water Ejection Pump
18. Water Sucking Pump
19. Water Sucking Line
20. Window
21. Rinsing Line with Jets
22. Mirror Fastener
23. Semi-Transparent Mirror
24. Scraper and Collection Area
26. Cell
- 26a. Optical Distribution and Photovoltaic Conversion System
- 26b. PV Bus Bar
27. Battery
28. Starter Circuit
29. Argon Supply
30. Argon Distribution
31. Cooling System
32. DC Power Supply
33. DC Regenerator
34. DC Power Storage
35. DC/AC Power Inverter
36. VFD Drive
37. Gas Pump
38. Gas Pump Return Line

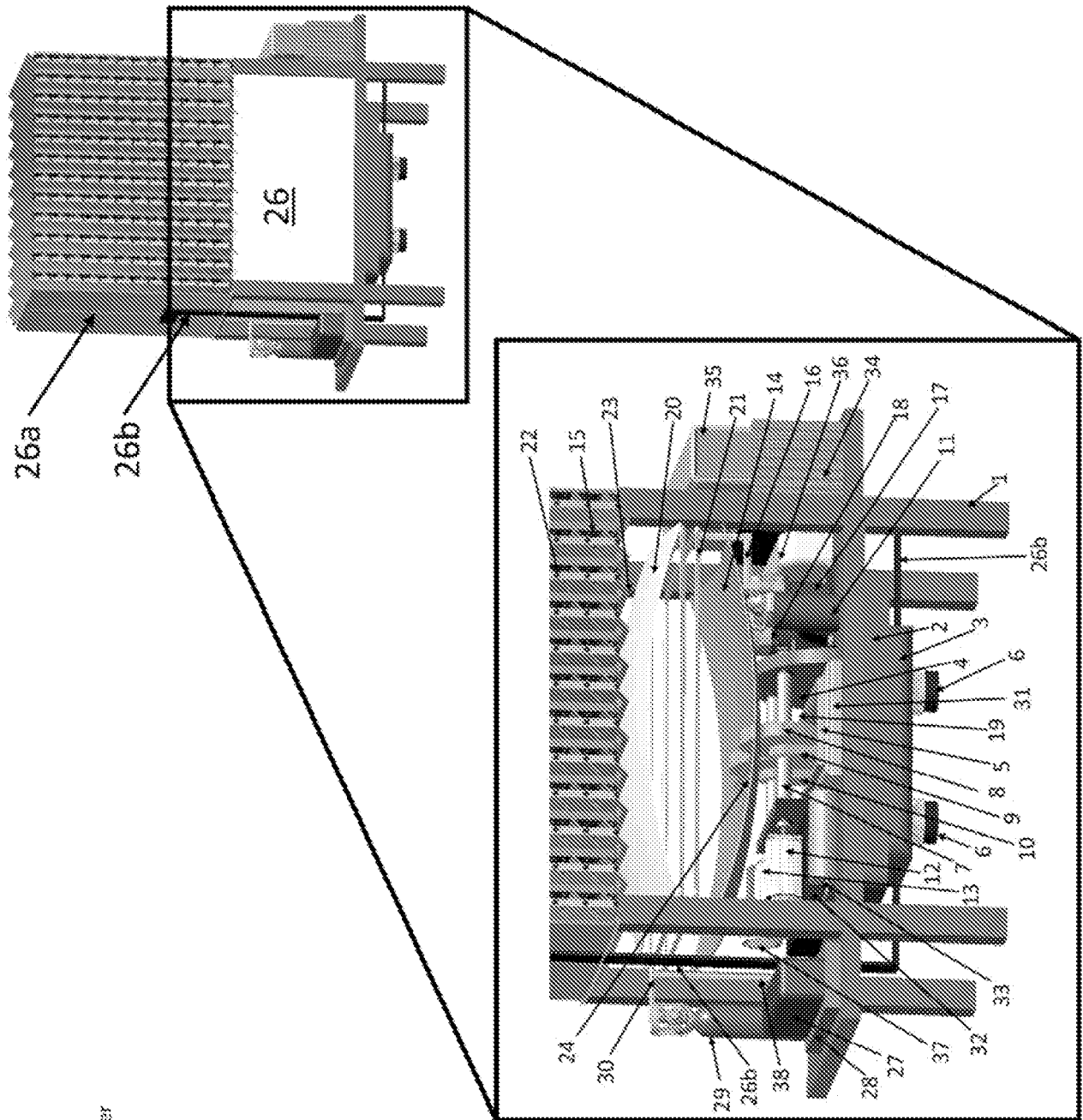
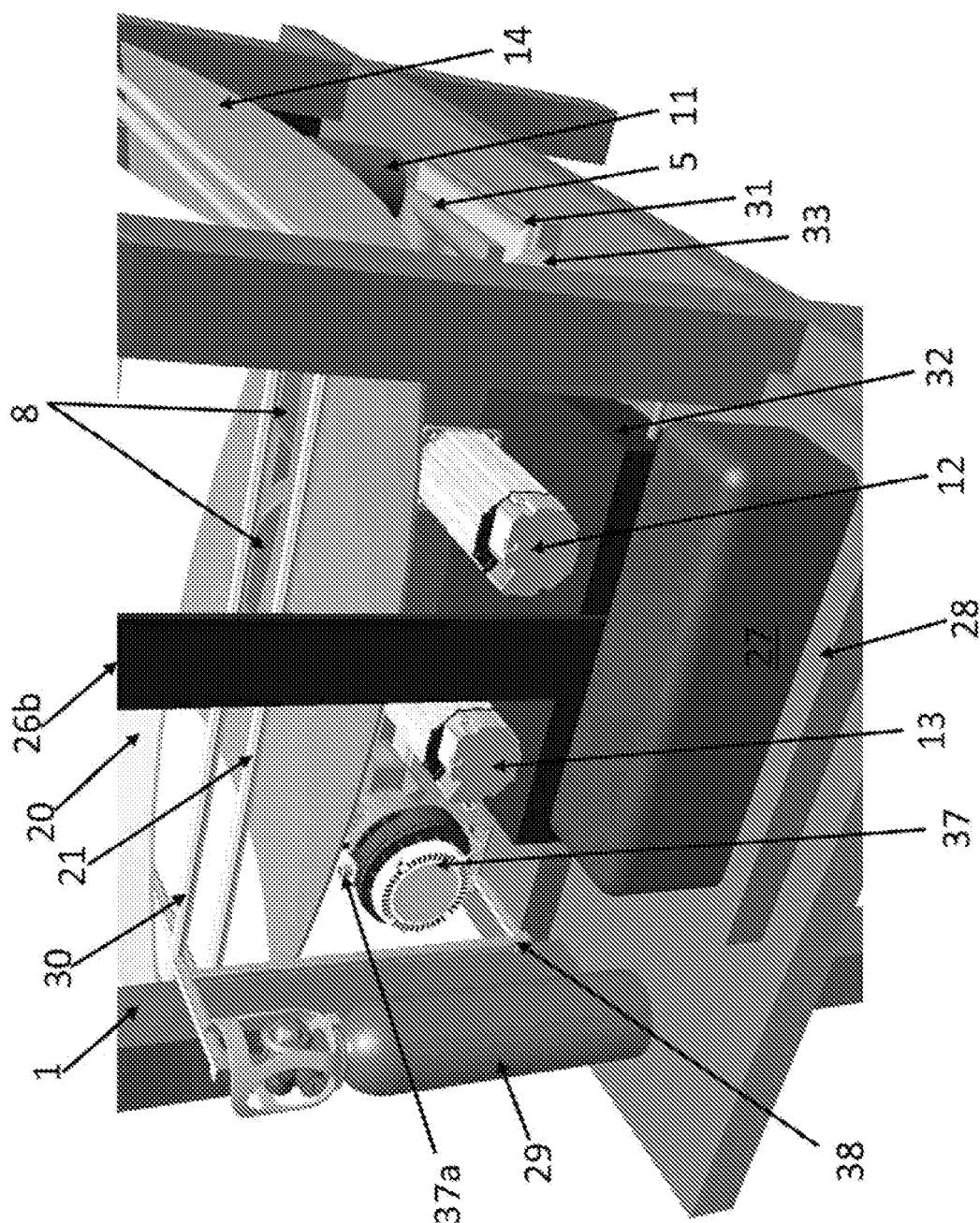


Fig. 2C2

1. Structural Support
2. Source of Electrical Power
3. Output Power Controller/Conditioner
4. Bearing Support for Roller Shaft
5. Trough
6. Output Power Terminal
7. Roller Shaft
8. Roller Electrode
9. Negative Electrode Bus Bar
10. Positive Electrode Bus Bar
11. Water Reservoir
12. Roller Motor 1
13. Roller Motor 2
14. Parabolic Mirror
15. Photovoltaic Panel
16. Jet Water Line
17. Water Ejection Pump
18. Water Sucking Pump
19. Water Sucking Line
20. Window
21. Rinsing Line with Jets
22. Mirror Fastener
23. Semi-Transparent Mirror
24. Scraper and Collection Area
26. Cell
- 26a. Optical Distribution and Photovoltaic Conversion System
- 26b. PV Bus Bar
27. Battery
28. Starter Circuit
29. Argon Supply
30. Argon Distribution
31. Cooling System
32. DC Power Supply
33. DC Regenerator
34. DC Power Storage
35. DC/AC Power Inverter
36. VFD Drive
37. Gas Pump
- 37a. Gas Pump Inlet
38. Gas Pump Return Line



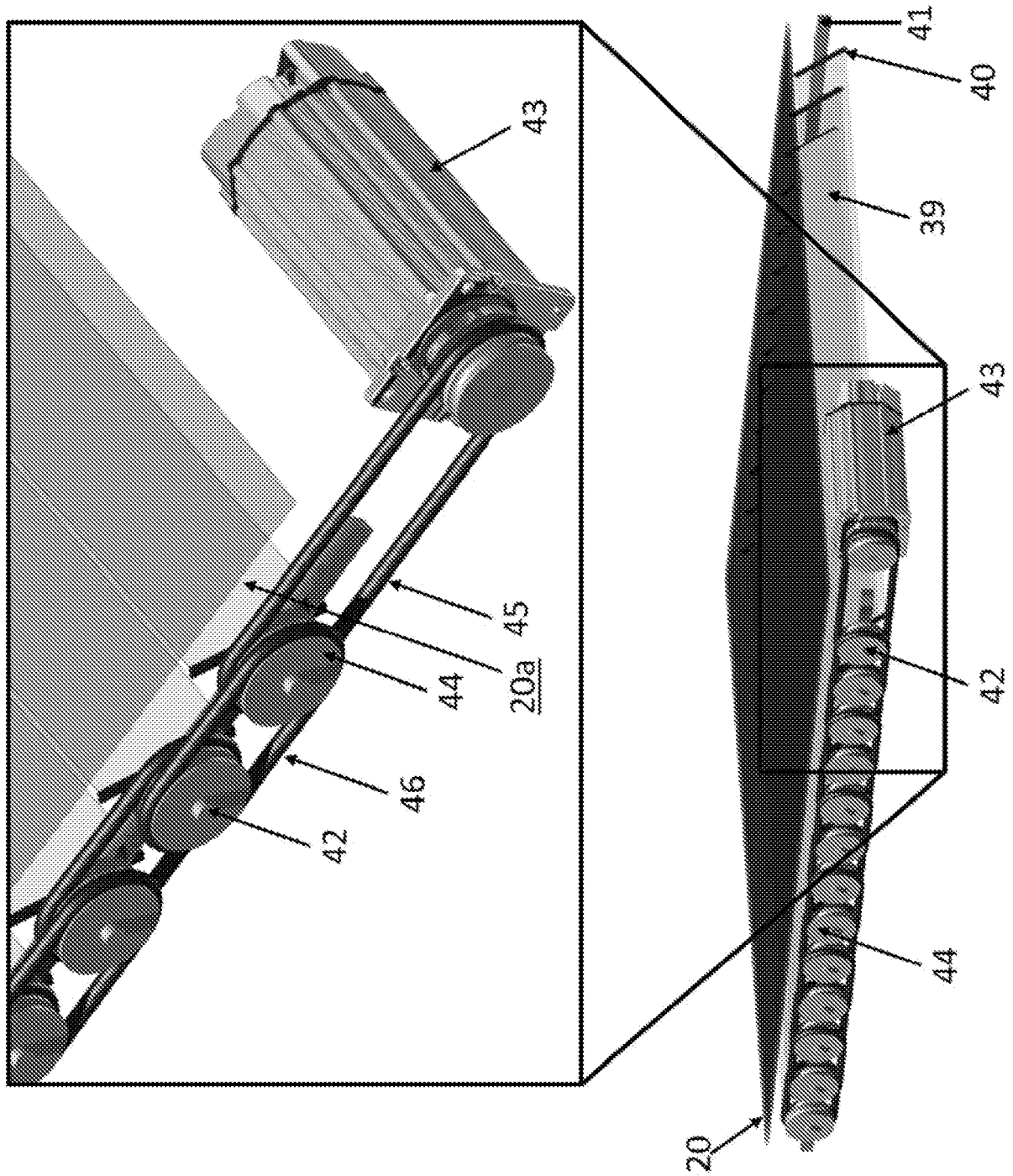


Fig. 2C3

- 20. Window
- 20a. Louver Fan
- 39. Louvre Slats
- 40. Louvre Bracket
- 41. Bracket Holder
- 42. Bearing
- 43. Slat Motor
- 44. Dual Pulley
- 45. Drive Belt
- 46. Slat Belt

Fig. 2D

1. Structural Support
2. Source of Electrical Power
3. Output Power Controller/Conditioner
4. Bearing Support for Roller Shaft
- 4a. Bearing
5. Trough
7. Roller Shaft
12. Roller Motor 1
13. Roller Motor 2
19. Water Sucking Line
25. Chute
27. Applicator Wheel
28. Applicator Flaps
29. Applicator Shaft
30. Applicator Wheel Motor

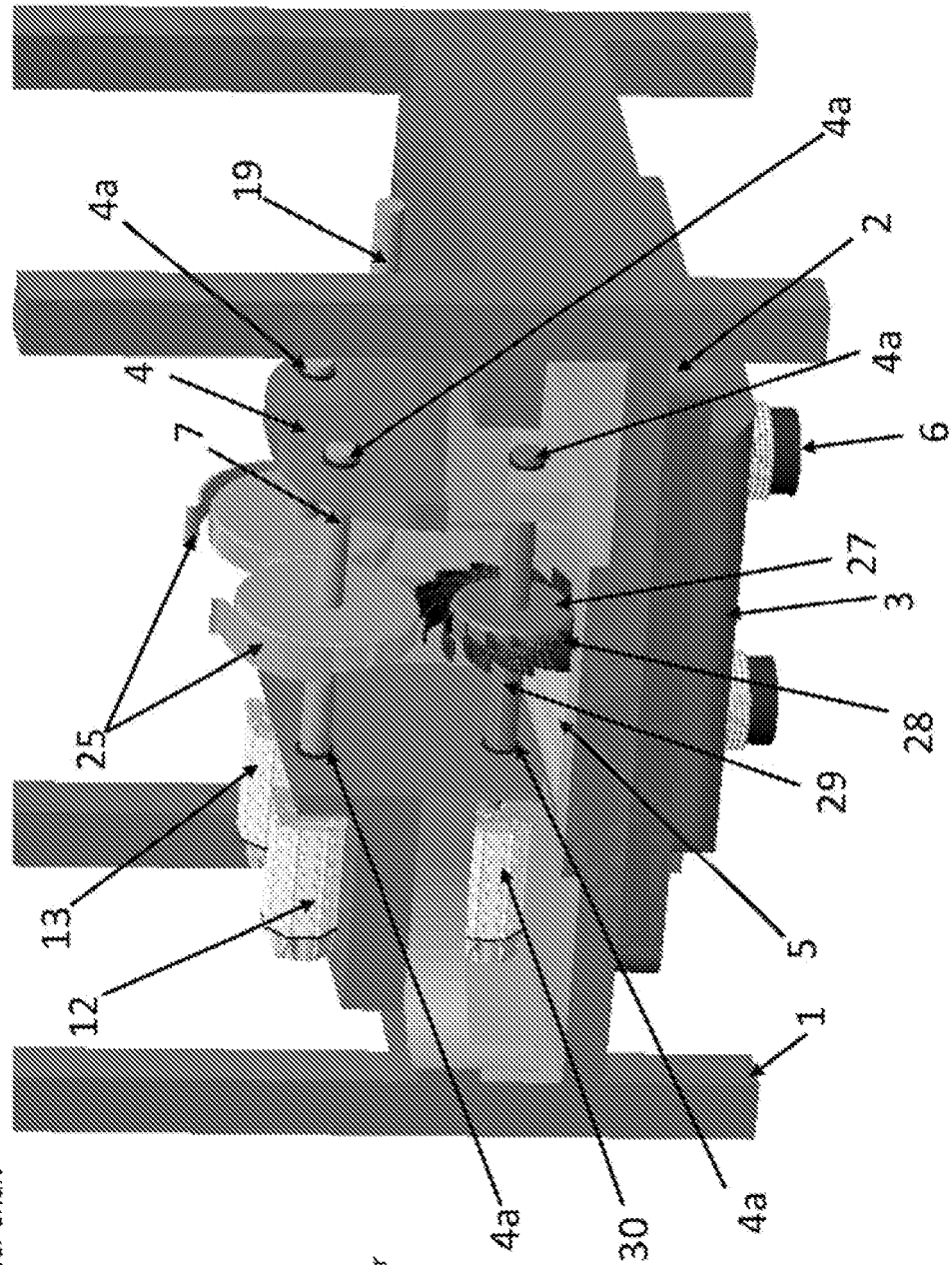


Fig. 2E

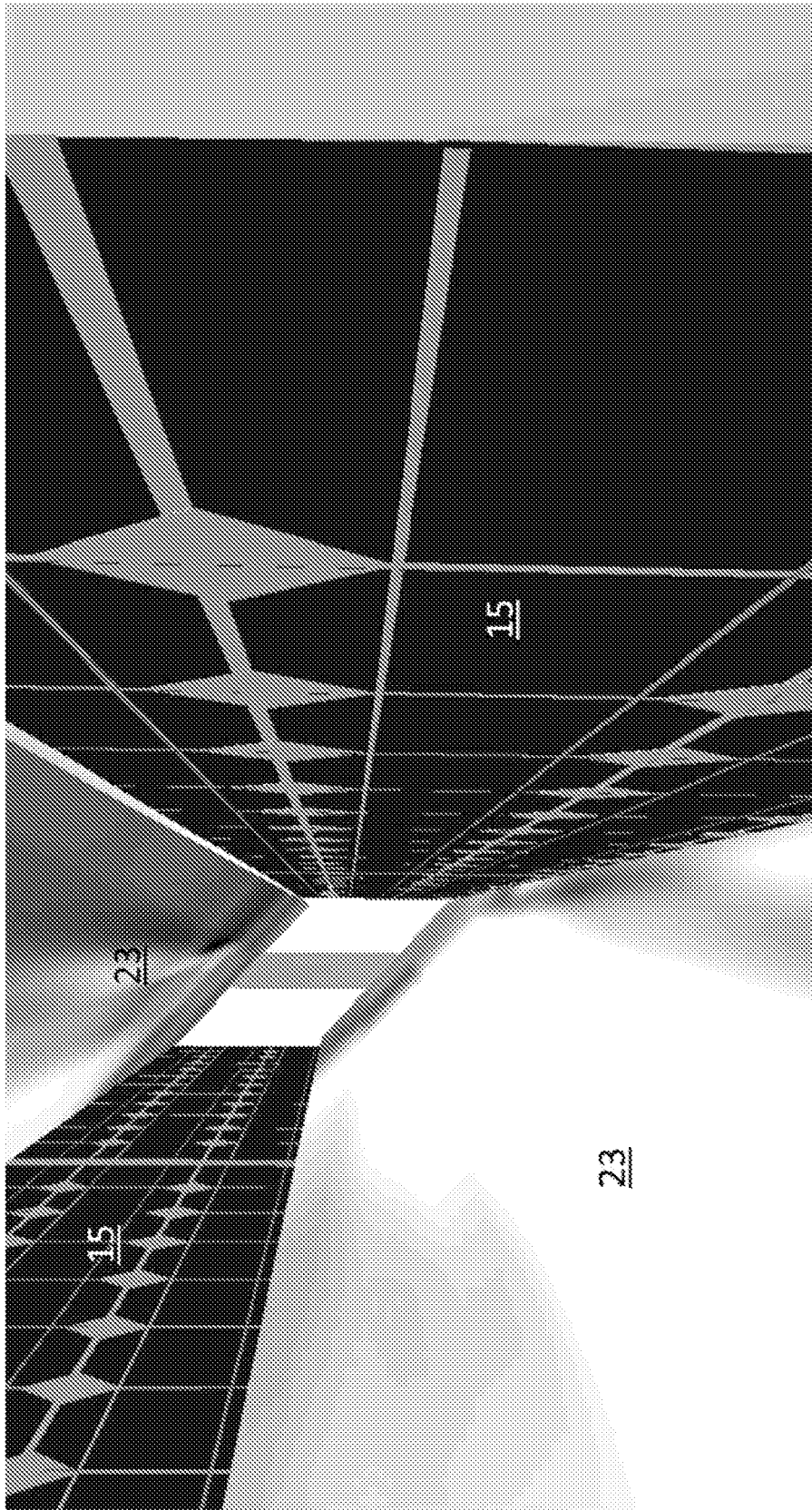


Fig. 2F

- 1. Structural Support
- 5. Trough
- 7. Roller Shaft
- 8. Roller Electrode
- 9. Negative Electrode Bus Bar
- 10. Positive Electrode Bus Bar
- 12. Roller Motor 1
- 13. Roller Motor 2
- 40. Tilted Mirror
- 41. Plane Mirror

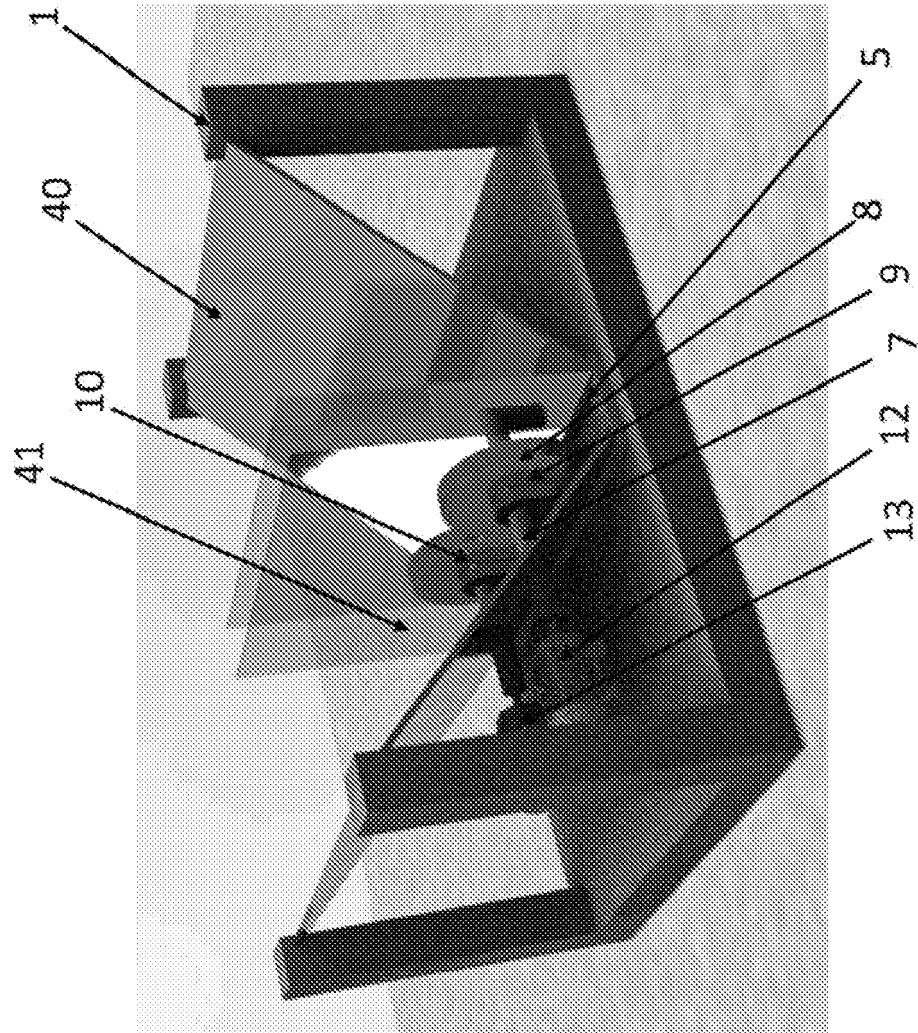
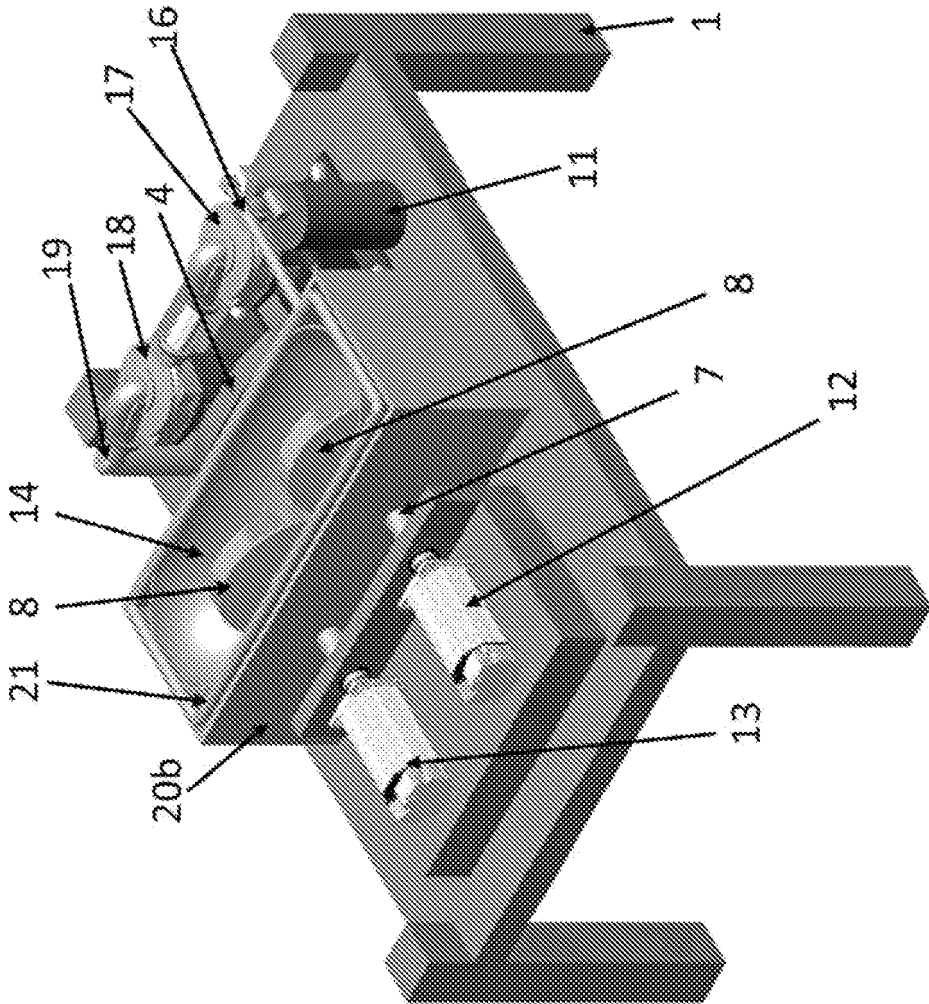


Fig. 2G

- 1. Structural Support
- 4. Bearing Support for Roller Shaft
- 7. Roller Shaft
- 8. Roller Electrode
- 11. Water Reservoir
- 12. Roller Motor 1
- 13. Roller Motor 2
- 14. Parabolic Mirror
- 15. Jet Water Line
- 17. Water Ejection Pump
- 18. Water Sucking Line
- 19. Water Sucking Line
- 20b. Electrode Housing
- 21. Rinsing Line with Jets



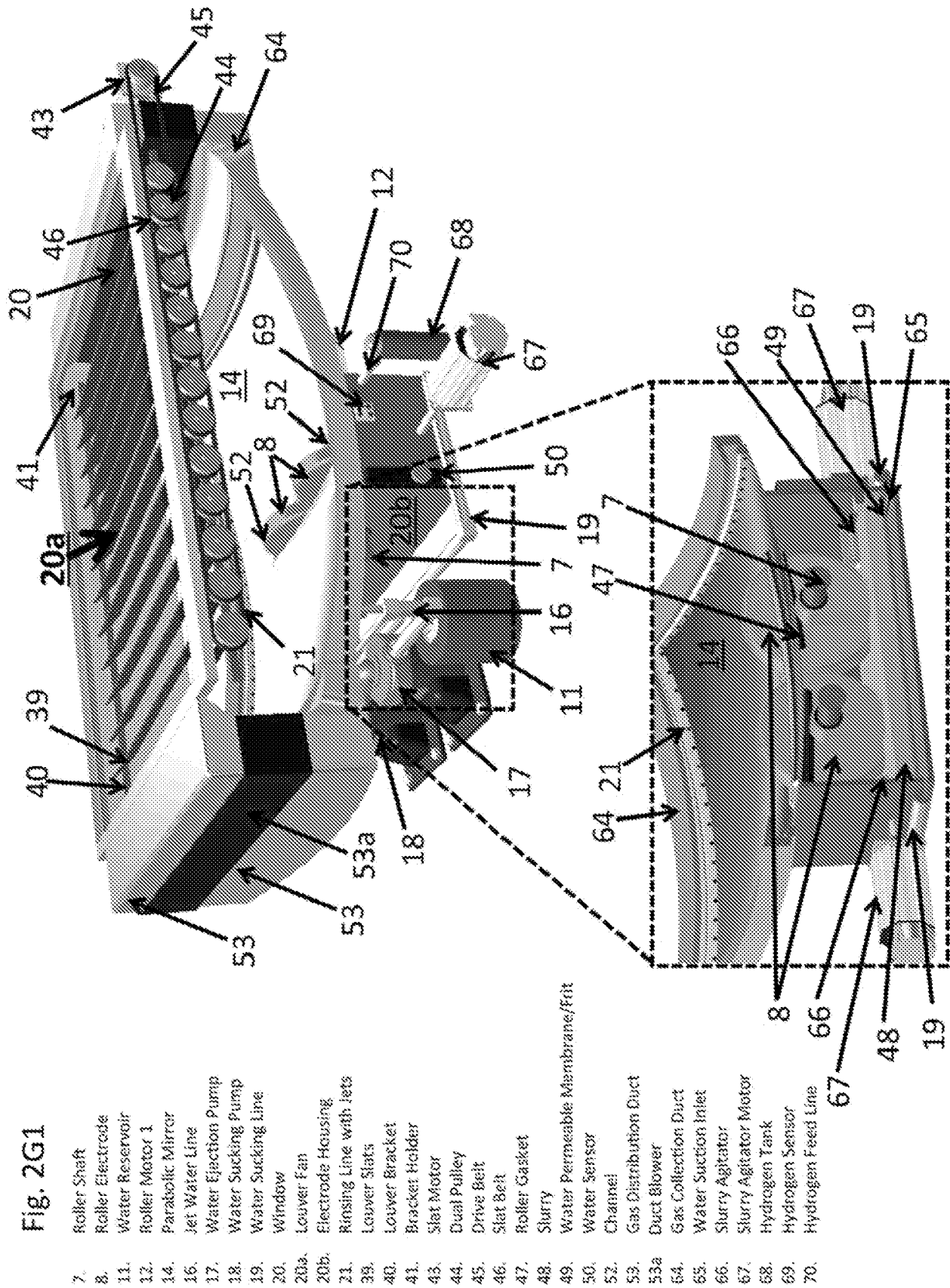
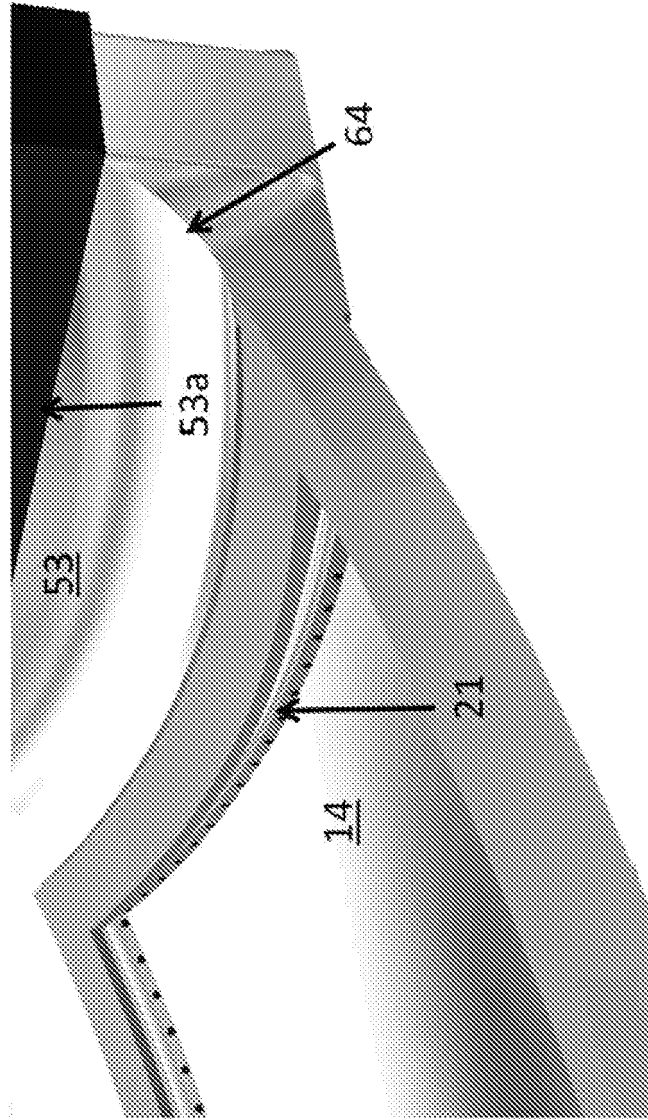


Fig. 2G1a

- 14. Parabolic Mirror
- 21. Rinsing Line with Jets
- 53. Gas Distribution Duct
- 53a. Duct Blower
- 64. Gas Collection Duct



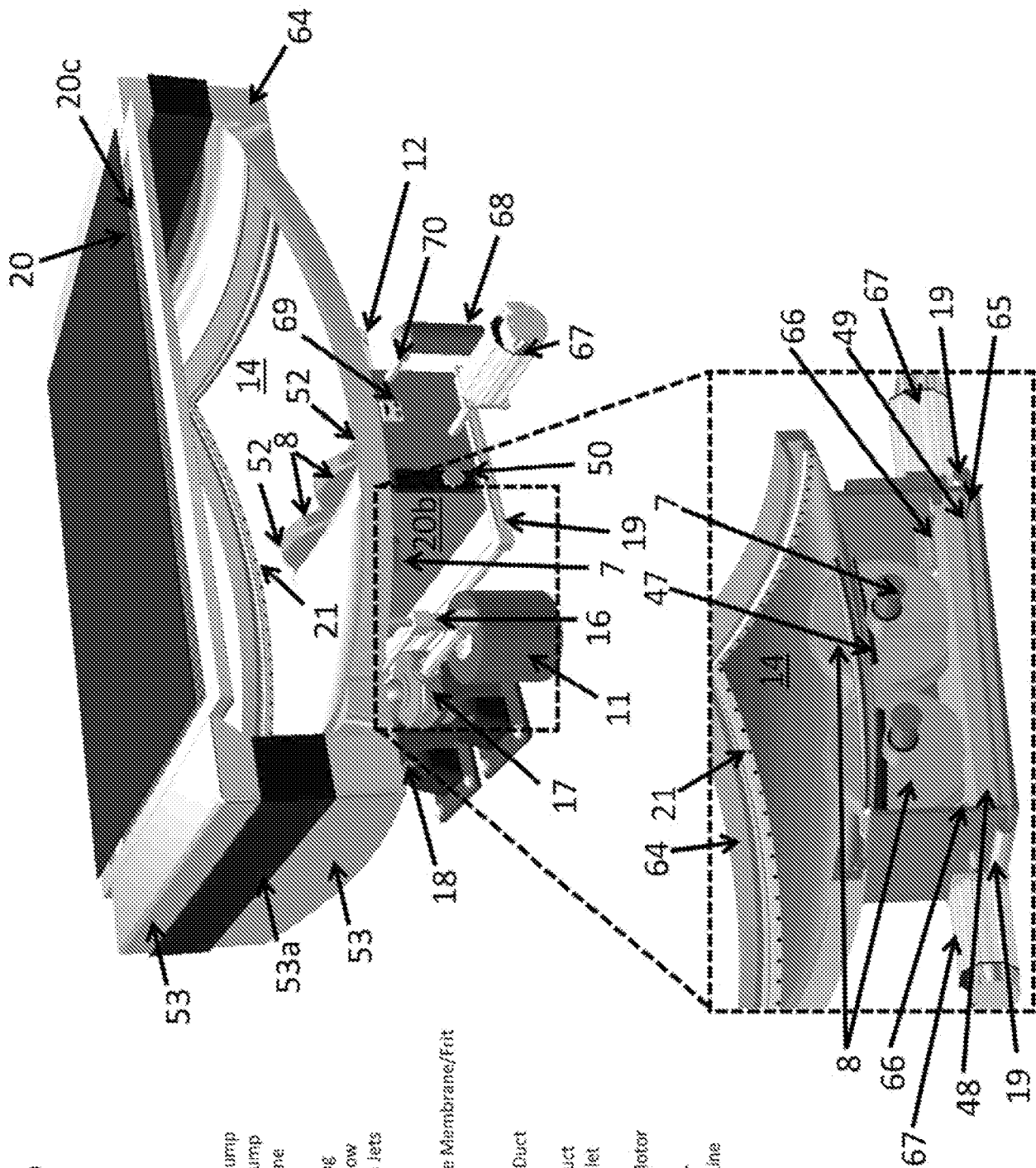


Fig. 2G1b

- 7. Roller Shaft
- 8. Roller Electrode
- 11. Water Reservoir
- 12. Roller Motor 1
- 14. Parabolic Mirror
- 16. Jet Water Line
- 17. Water Ejection Pump
- 18. Water Sucking Pump
- 19. Water Sucking Line
- 20. Window
- 20b. Electrode Housing
- 20c. Perforated Window
- 21. Rinsing Line with jets
- 47. Roller Gasket
- 48. Slurry
- 49. Water Permeable Membrane/Exit
- 50. Water Sensor
- 52. Channel
- 53. Gas Distribution Duct
- 53a. Duct Blower
- 64. Gas Collection Duct
- 65. Water Suction Inlet
- 66. Slurry Agitator
- 67. Slurry Agitator Motor
- 68. Hydrogen Tank
- 69. Hydrogen Sensor
- 70. Hydrogen Feed Line

Fig. 2G1c

- 53. Duct
- 53a. Duct Blower
- 64. Gas Collection Duct
- 64a. Blower Inlet
- 64b. Blower Outlet
- 64c. Duct Inlet
- 64d. Duct Outlet
- 65. Plenum

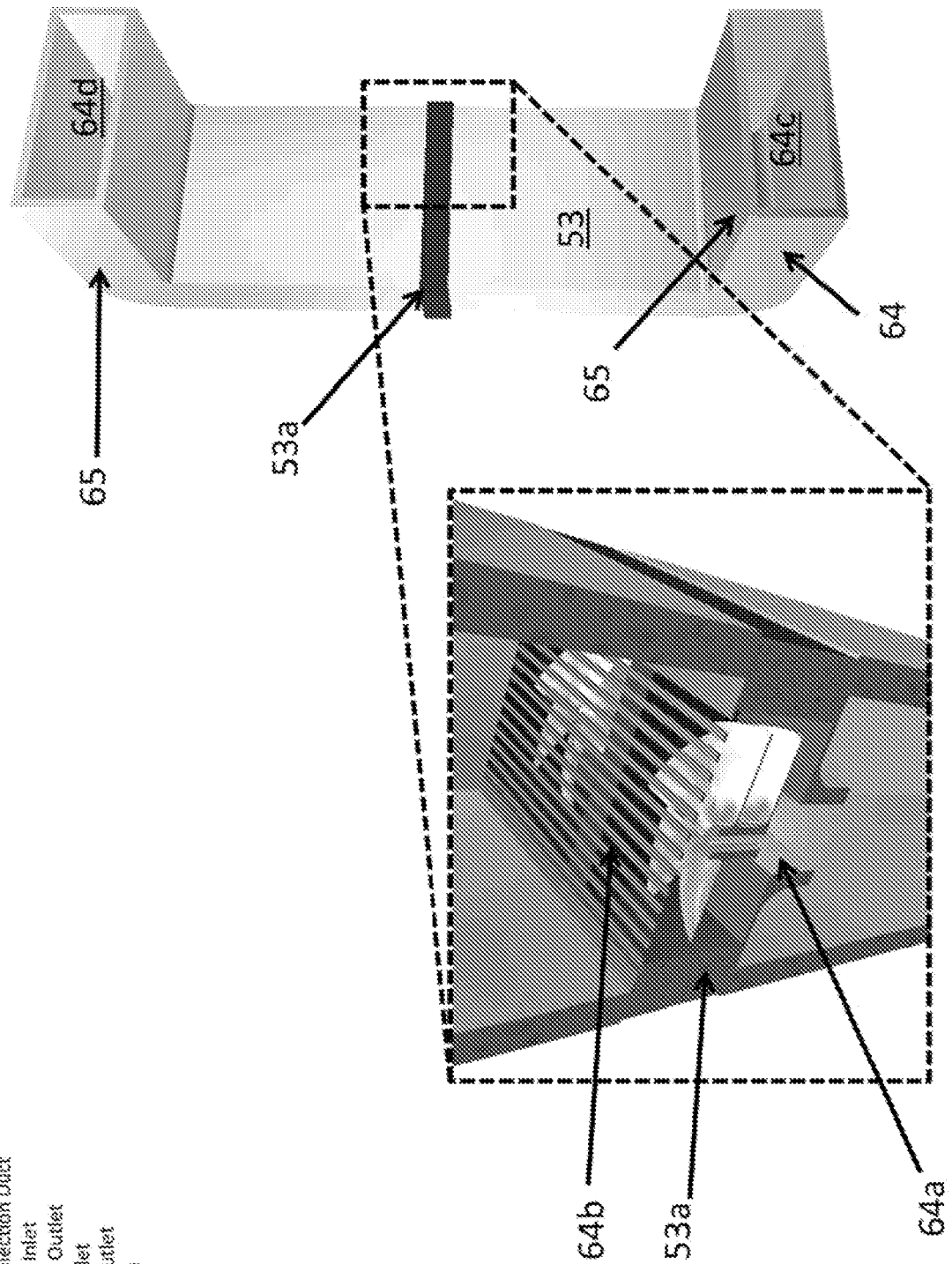
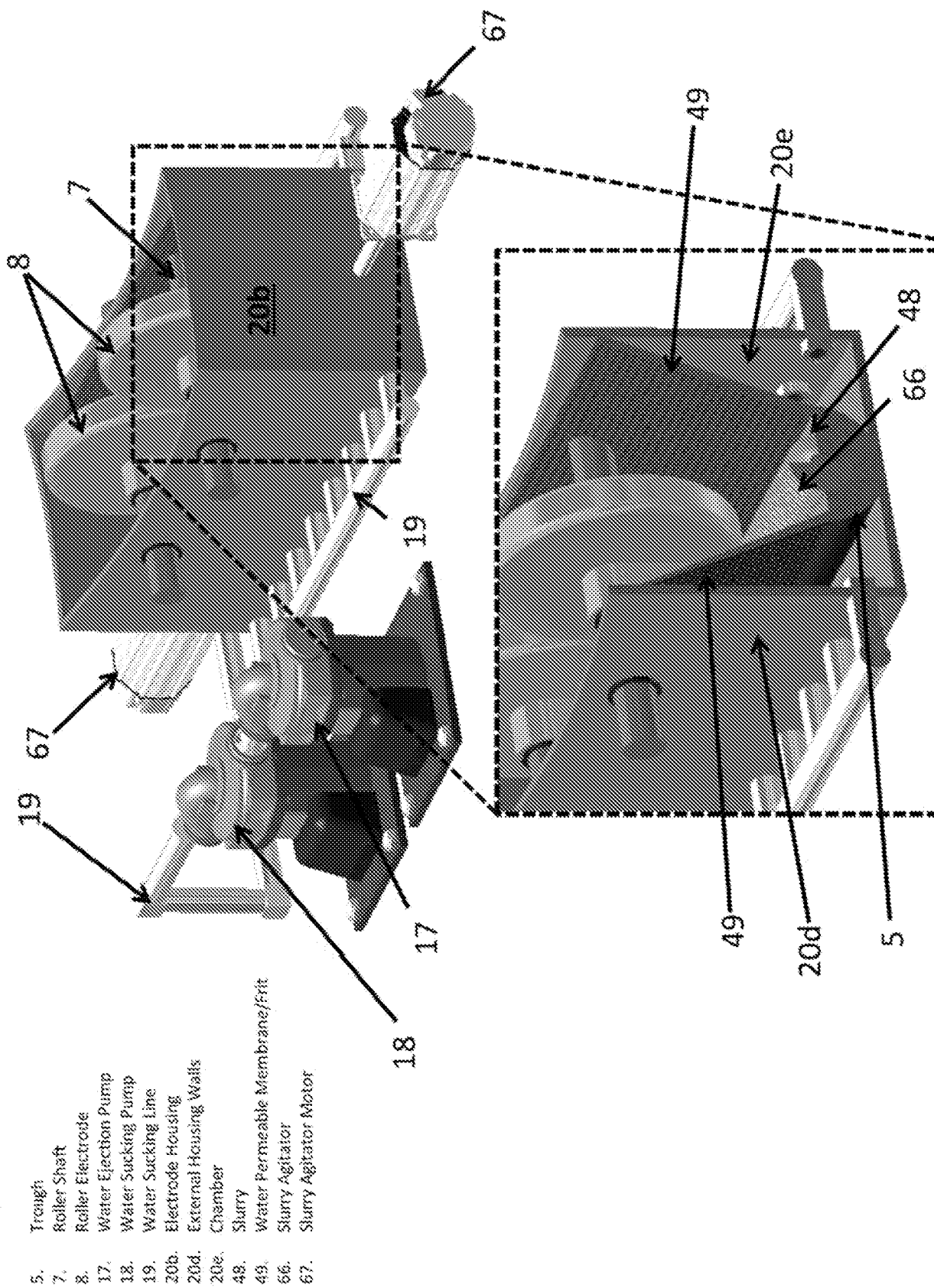


Fig. 2G1d



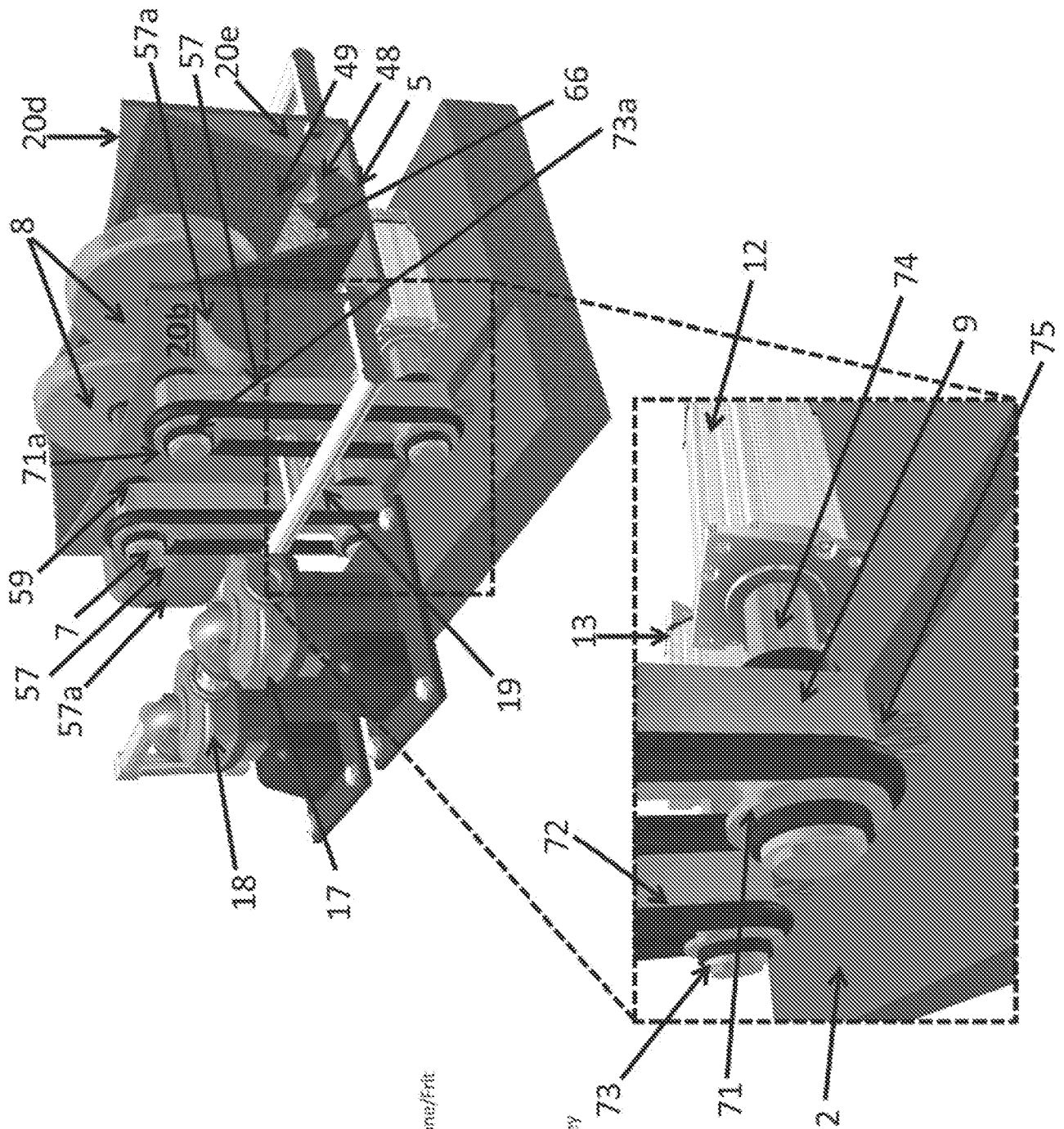
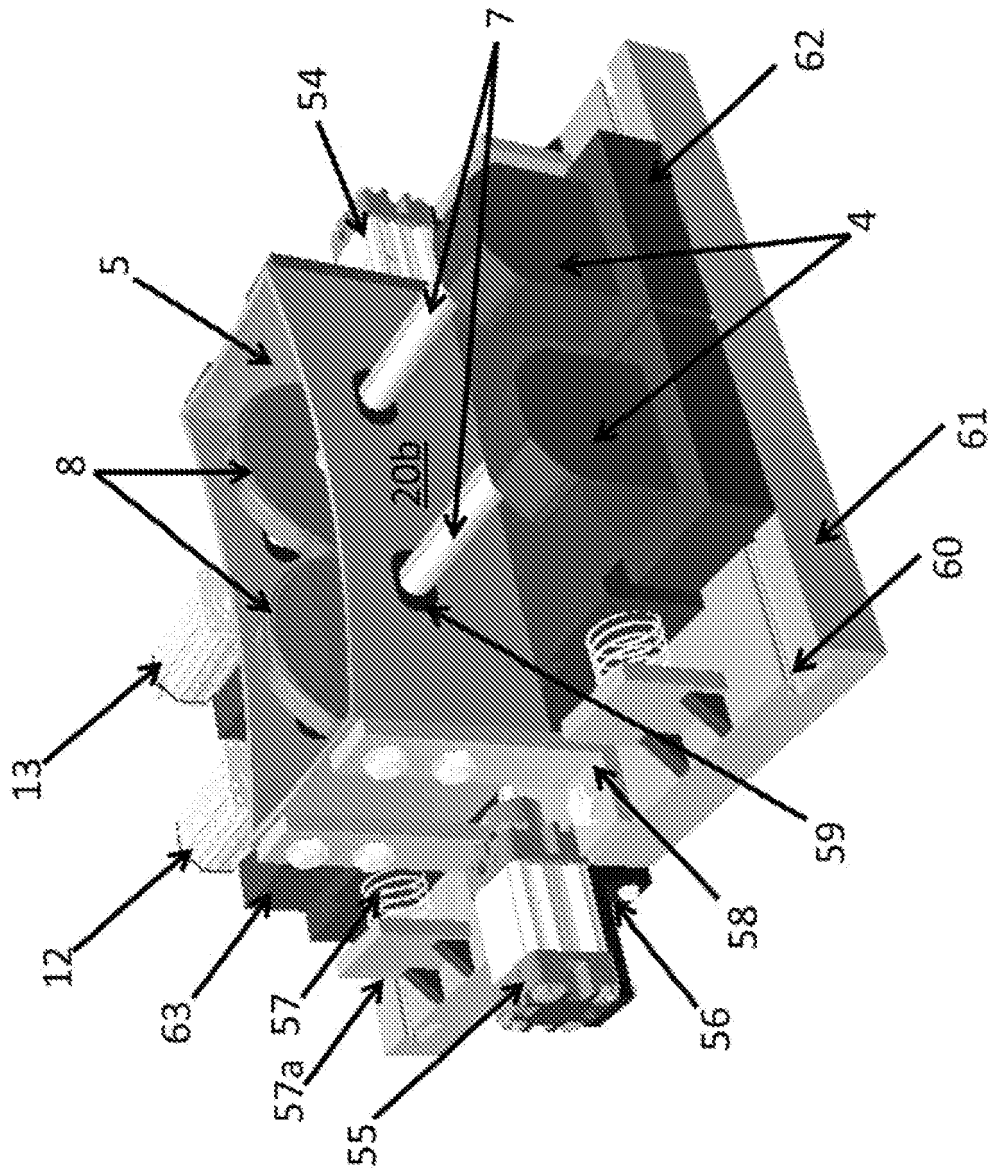


Fig. 2G1d1

- 2. Source of Electrical Power
- 5. Trough
- 7. Roller Shaft
- 8. Roller Electrode
- 9. Pivoting Bus Bar
- 12. Roller Motor 1
- 13. Roller Motor 2
- 17. Water Ejection Pump
- 18. Water Sucking Pump
- 19. Water Sucking Line
- 20a. Electrode Housing
- 20d. External Housing Walls
- 20e. Chamber
- 48. Slurry
- 49. Water Permeable Membrane/Frit
- 57. Tension Spring
- 57a. Spring Mount
- 59. Drive Shaft Gasket
- 66. Slurry Agitator
- 67. Slurry Agitator Motor
- 71. Bottom Indirect Drive Pulley
- 71a. Top Indirect Drive Pulley
- 72. Shaft Drive Belt
- 73. Drive Shaft Bearing
- 73a. Drive Shaft Bearing
- 74. Drive Shaft
- 75. Wire Connector

Fig. 2G1e

- 4. Bearing Support for Roller Shaft
- 5. Slurry Trough
- 7. Roller Shaft
- 8. Roller Electrode
- 12. Roller Motor 1
- 13. Roller Motor 2
- 20b. Electrode Housing
- 54. Piezoelectric Actuator 1
- 55. Piezoelectric Actuator 2
- 56. Piezoelectric Actuator Mount
- 57. Tension Spring
- 57a. Tension Spring Mount
- 58. Electrode Housing Bracket
- 59. Flexible Gasket
- 60. Slide Track
- 61. Base Support
- 62. Movable Table
- 63. Motor Mounts



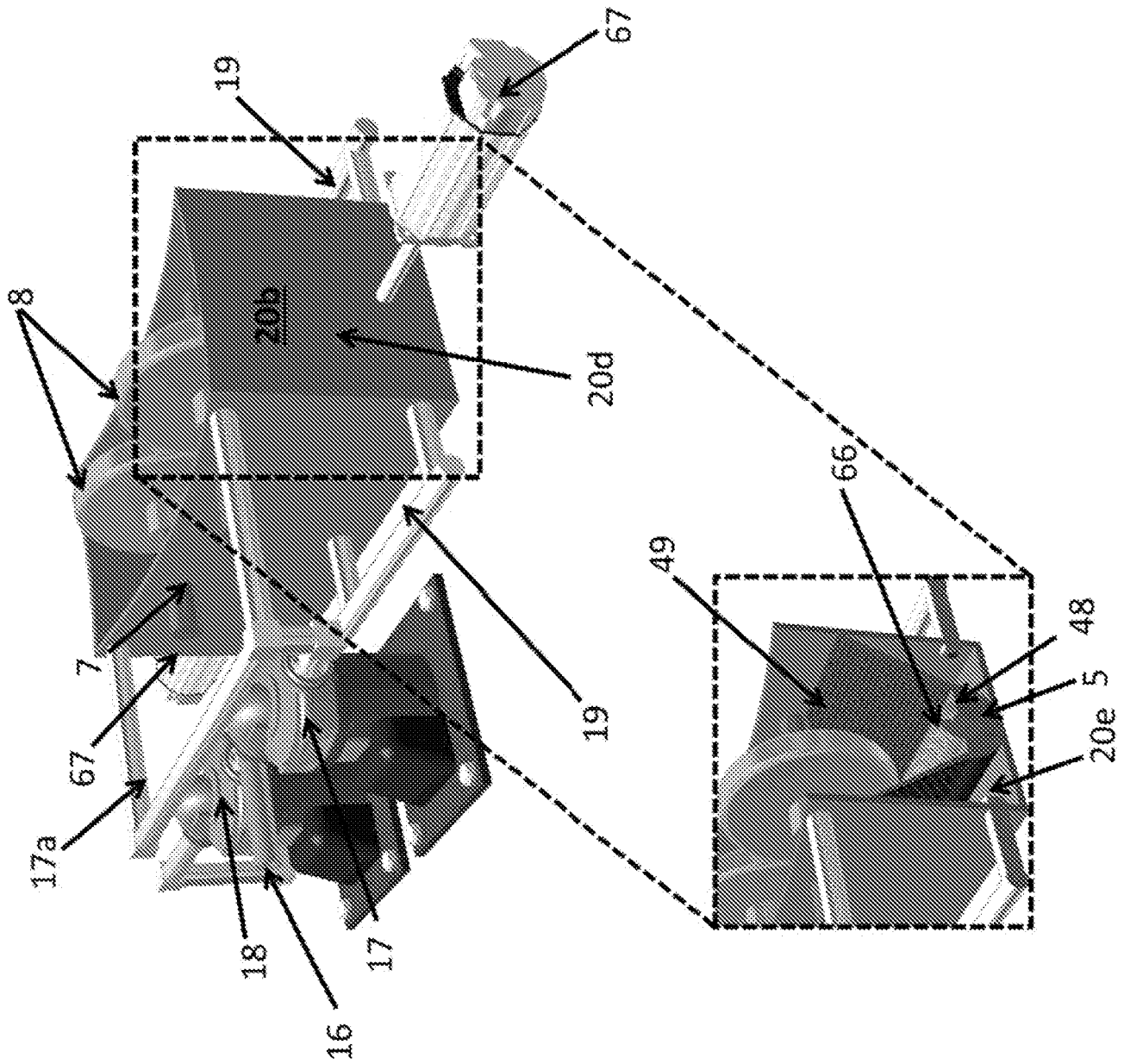
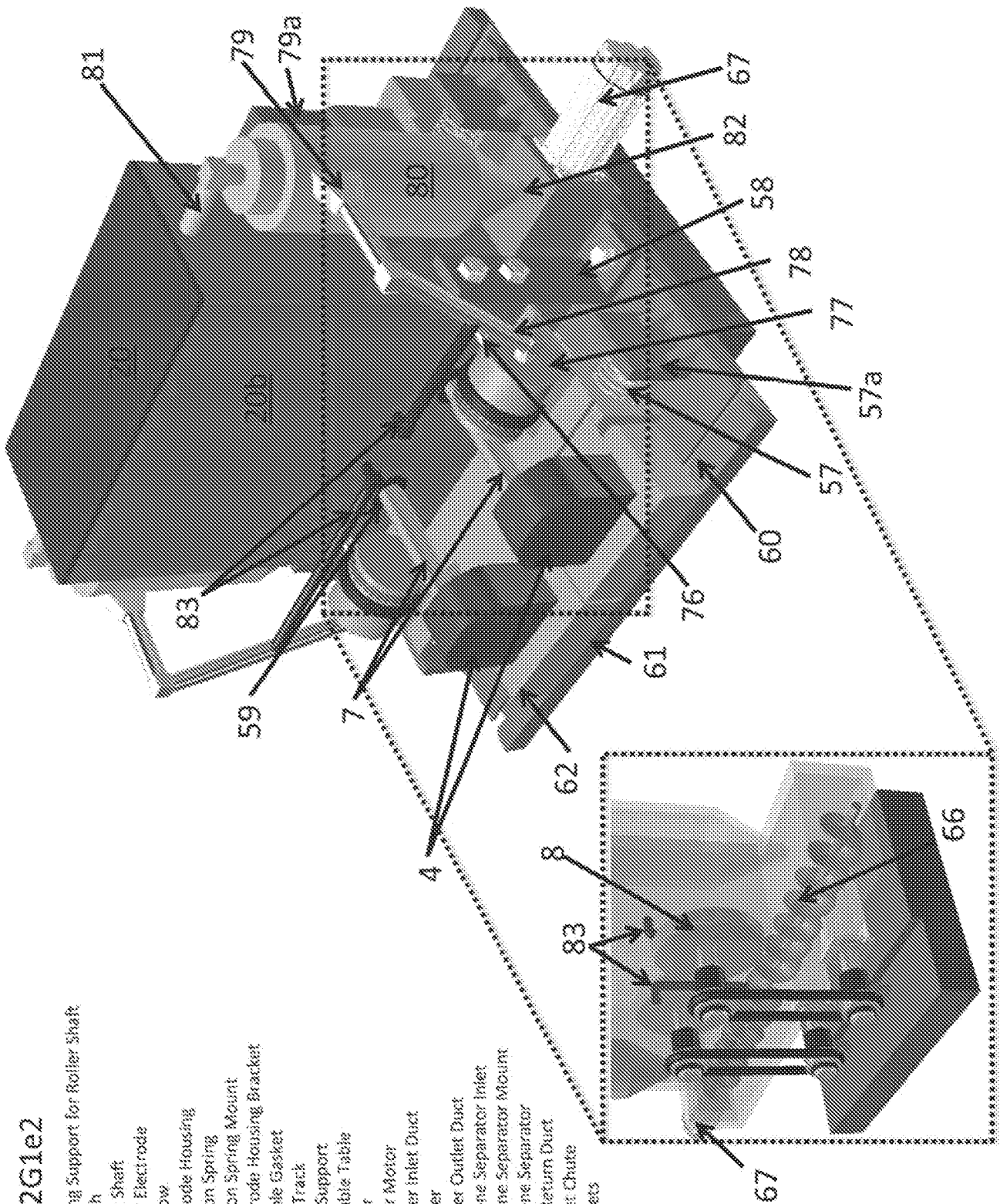


Fig. 2G1e1

- 5. Trough
- 7. Roller Shaft
- 8. Roller Electrode
- 16. Jet Gas Line
- 17. Recirculation Blower
- 17a. Gas Suction Line
- 18. Agitator Blower
- 19. Gas Injection Line
- 20b. Electrode Housing
- 20d. External Housing Walls
- 20e. Chamber
- 48. Fuel Powder
- 49. Gas Permeable Membrane/Frit
- 66. Powder Agitator
- 67. Powder Agitator Motor

Fig. 2G1e2

4. Bearing Support for Roller Shaft
5. Trough
7. Roller Shaft
8. Roller Electrode
20. Window
- 20b. Electrode Housing
57. Tension Spring
- 57a. Tension Spring Mount
58. Electrode Housing Bracket
59. Flexible Gasket
60. Slide Track
61. Base Support
62. Movable Table
66. Auger
67. Auger Motor
76. Blower Inlet Duct
77. Blower
78. Blower Outlet Duct
79. Cyclone Separator Inlet
- 79a. Cyclone Separator Mount
80. Cyclone Separator
81. Gas Return Duct
82. Outlet Chute
83. Gas Jets





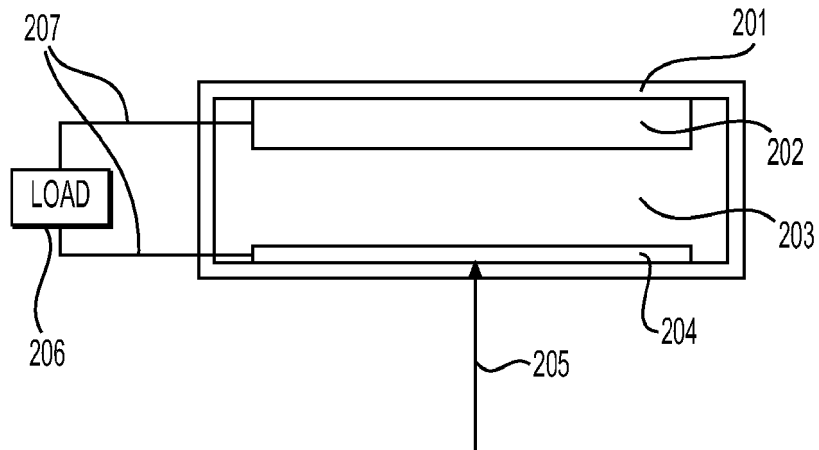
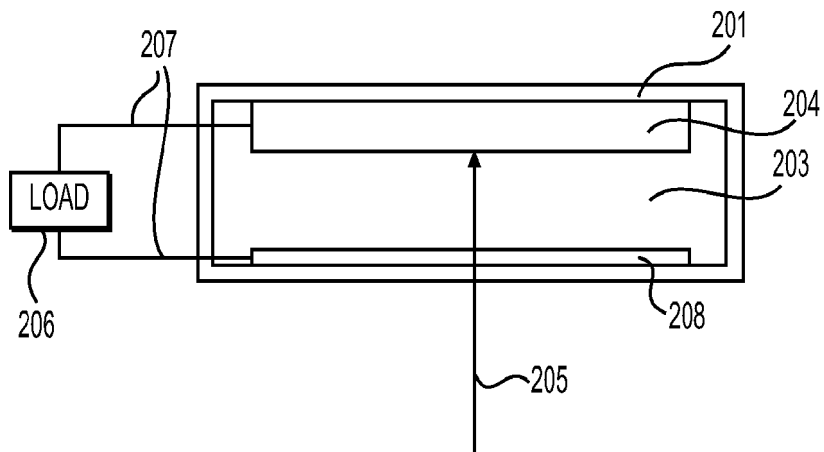
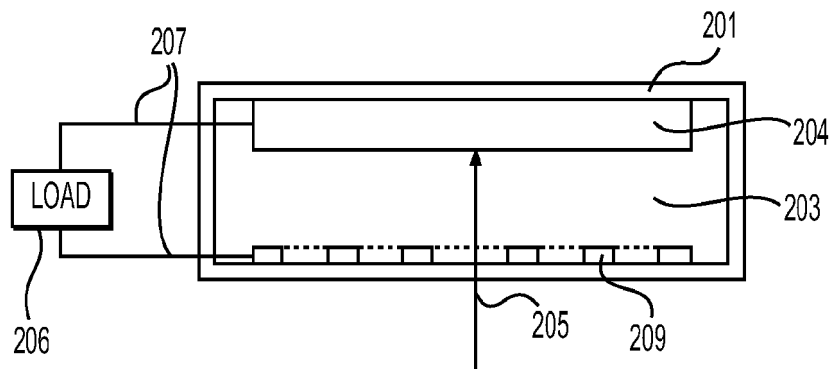
**FIG. 2G1e4****FIG. 2G1e5****FIG. 2G1e6**

Fig. 2H1

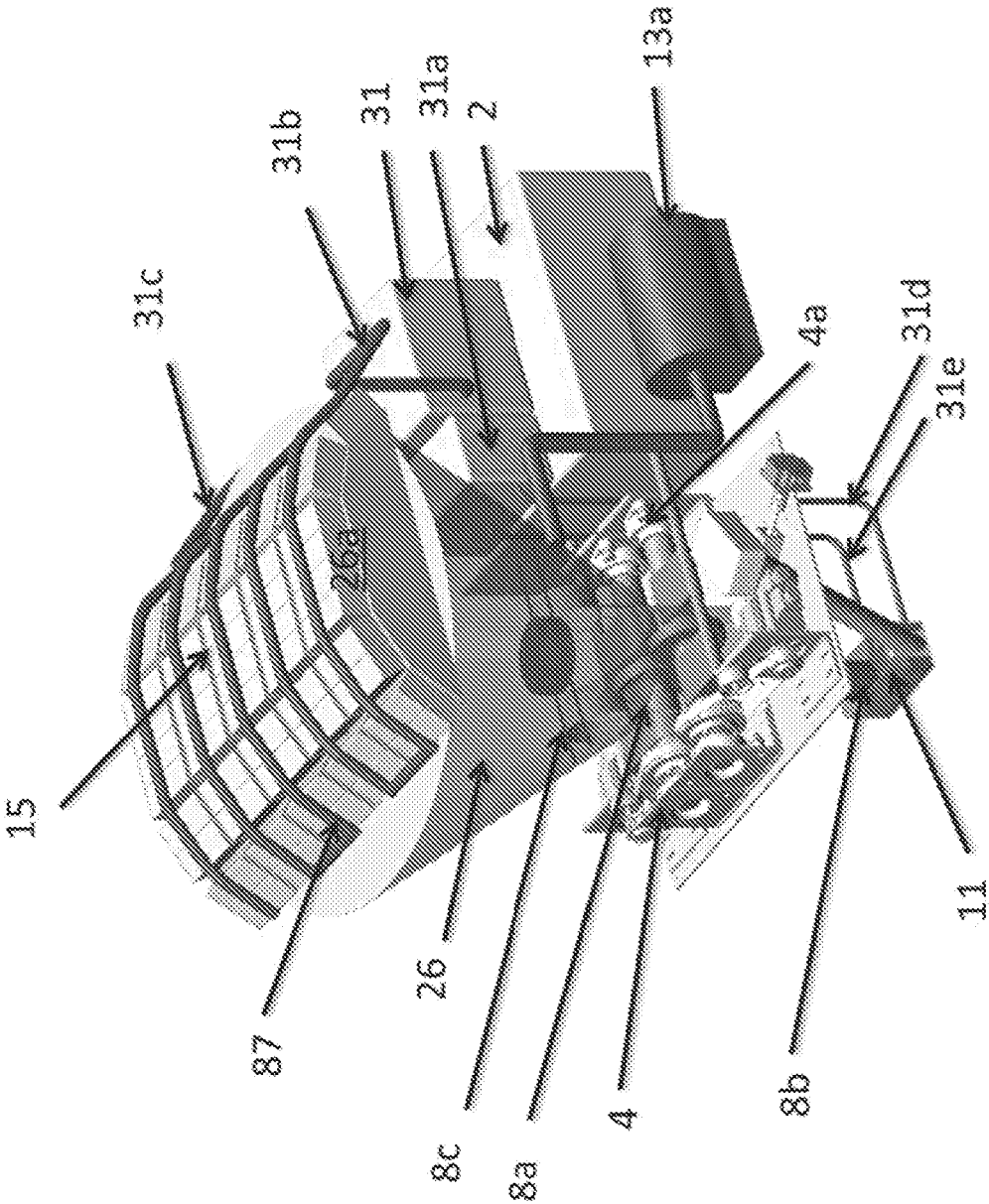
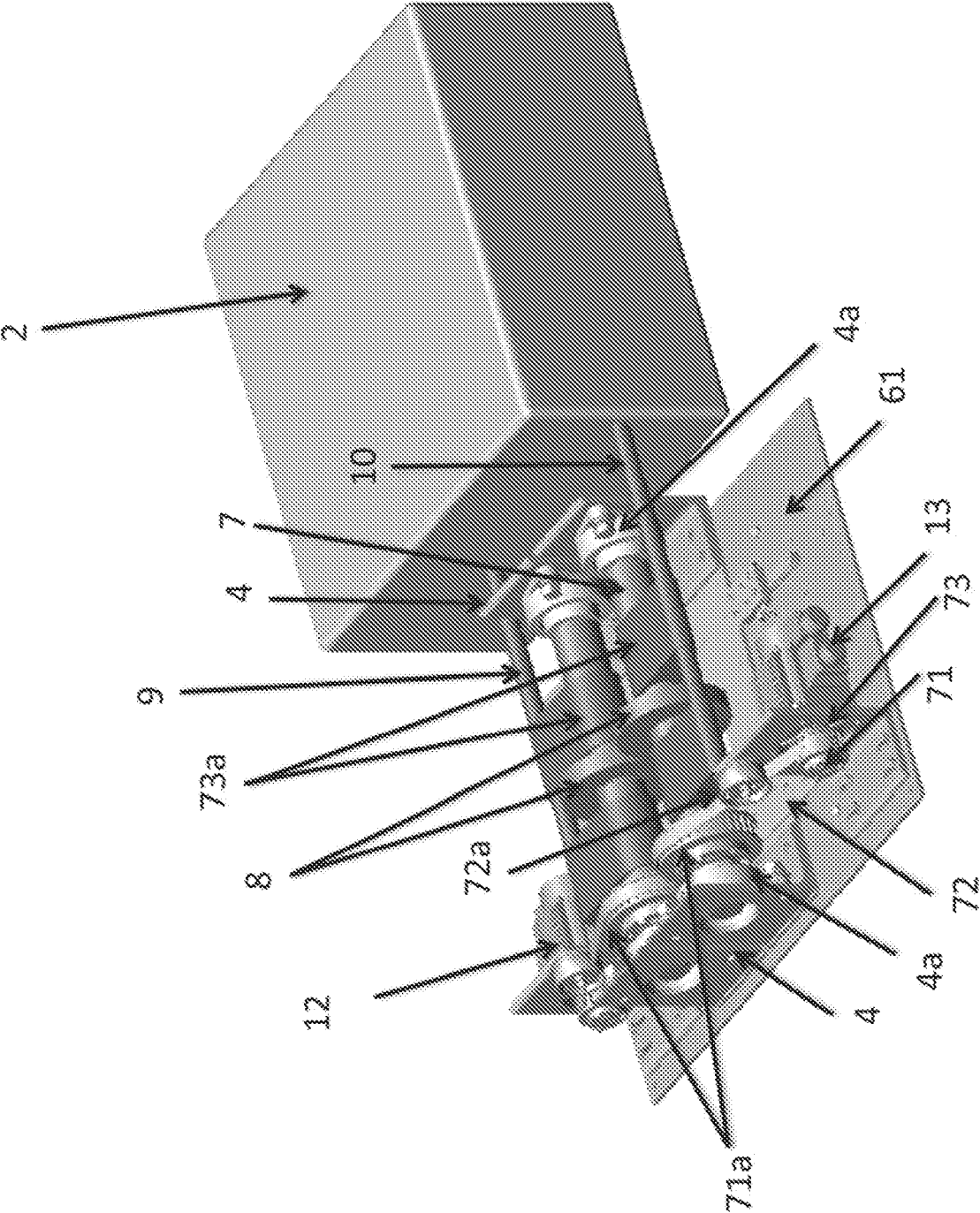
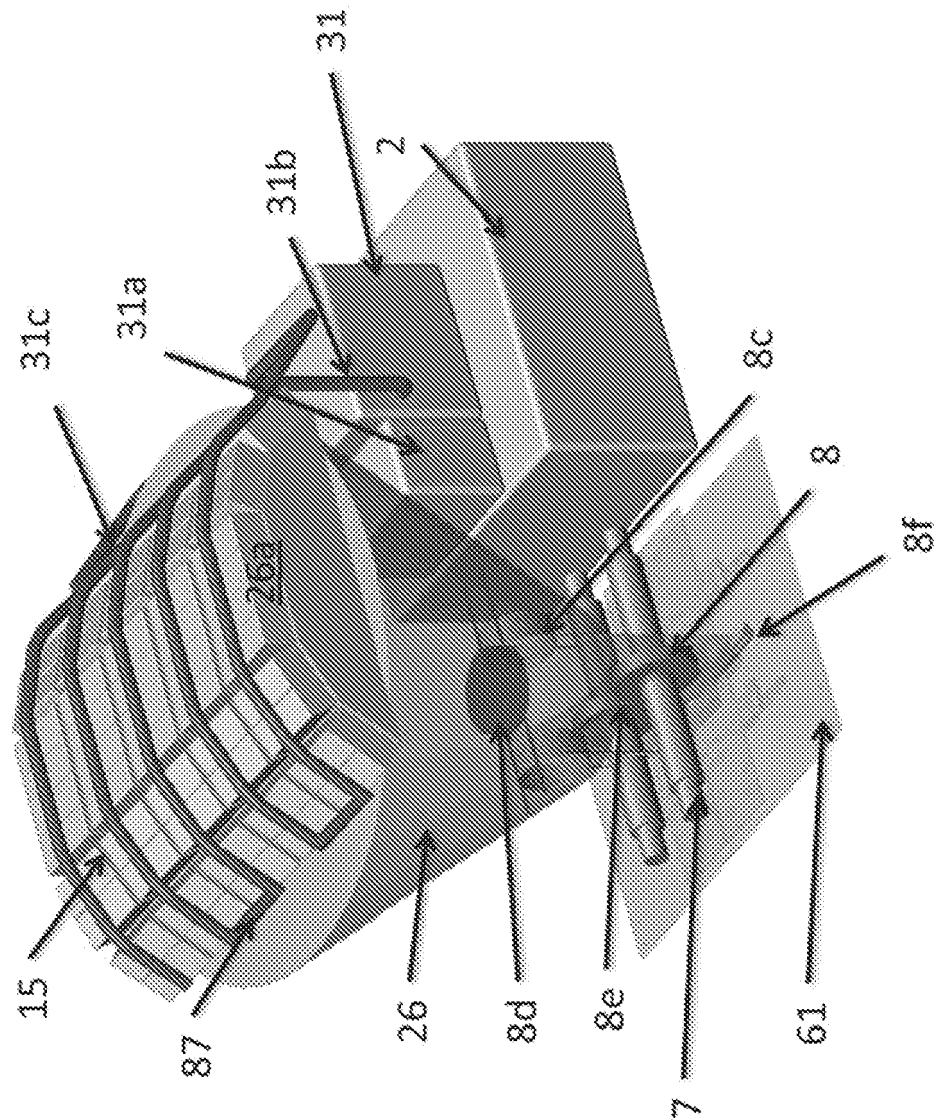


Fig. 2H2





226

Fig. 2H4

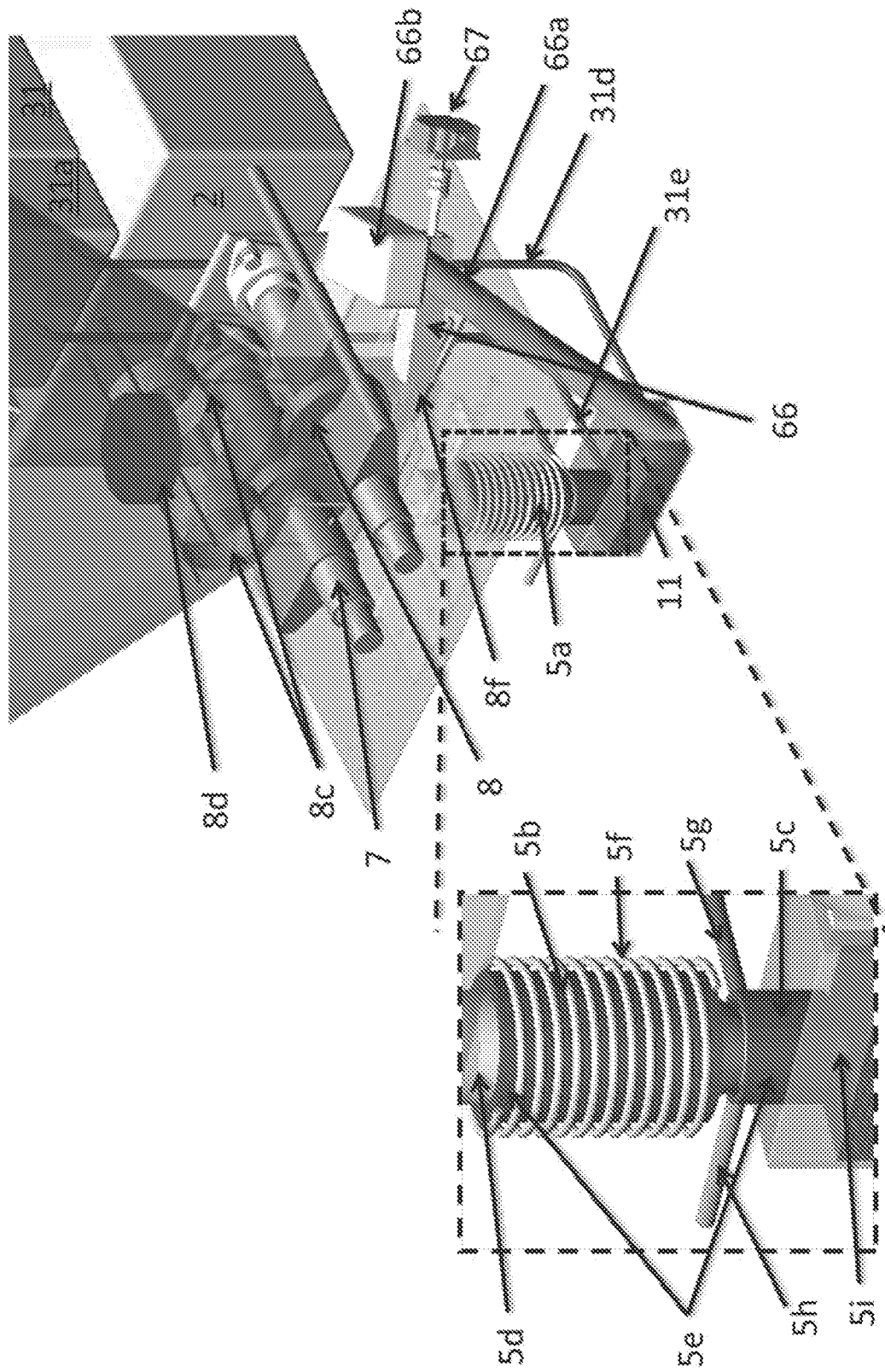


Fig. 2I1

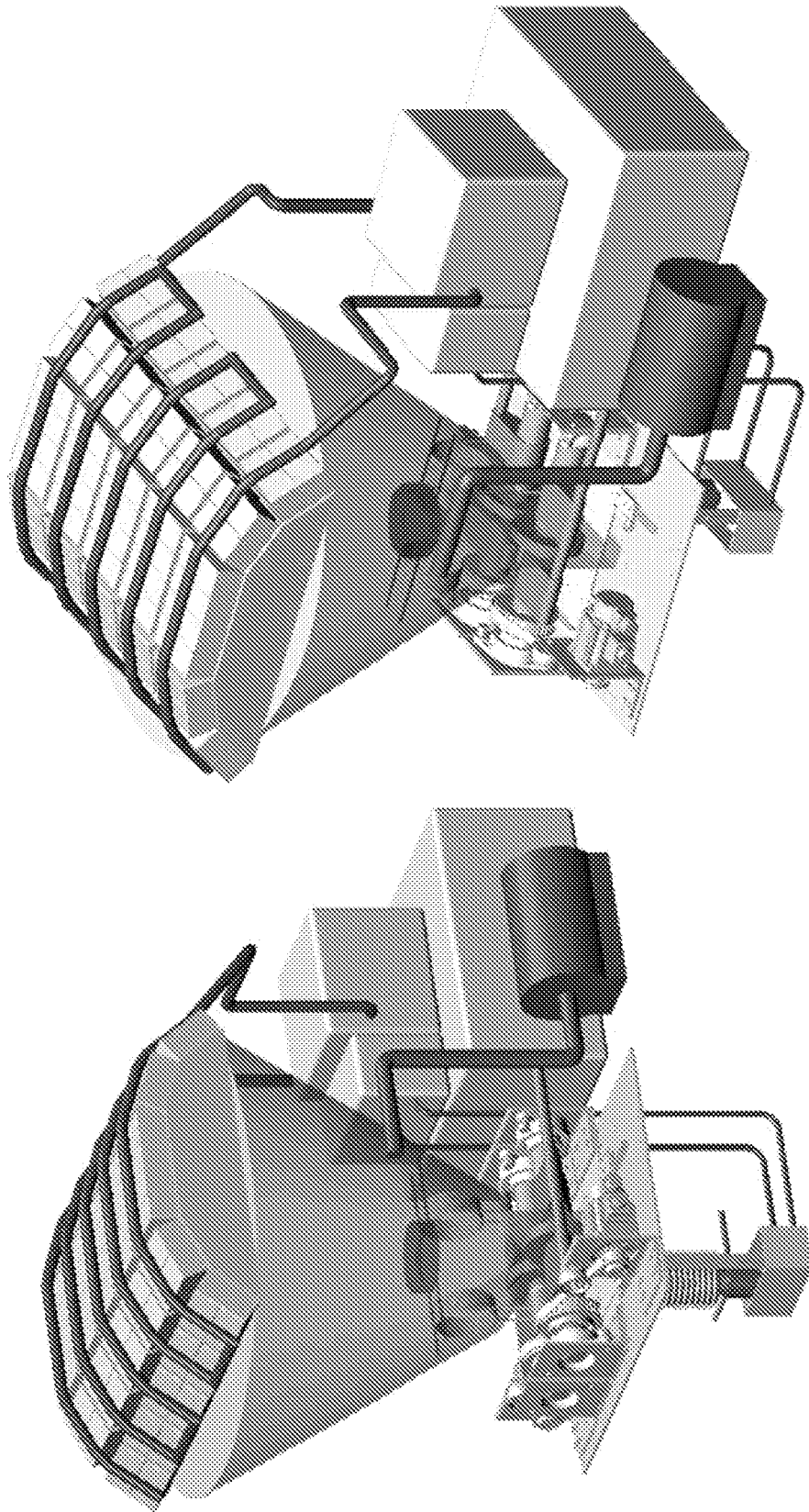


Fig. 212

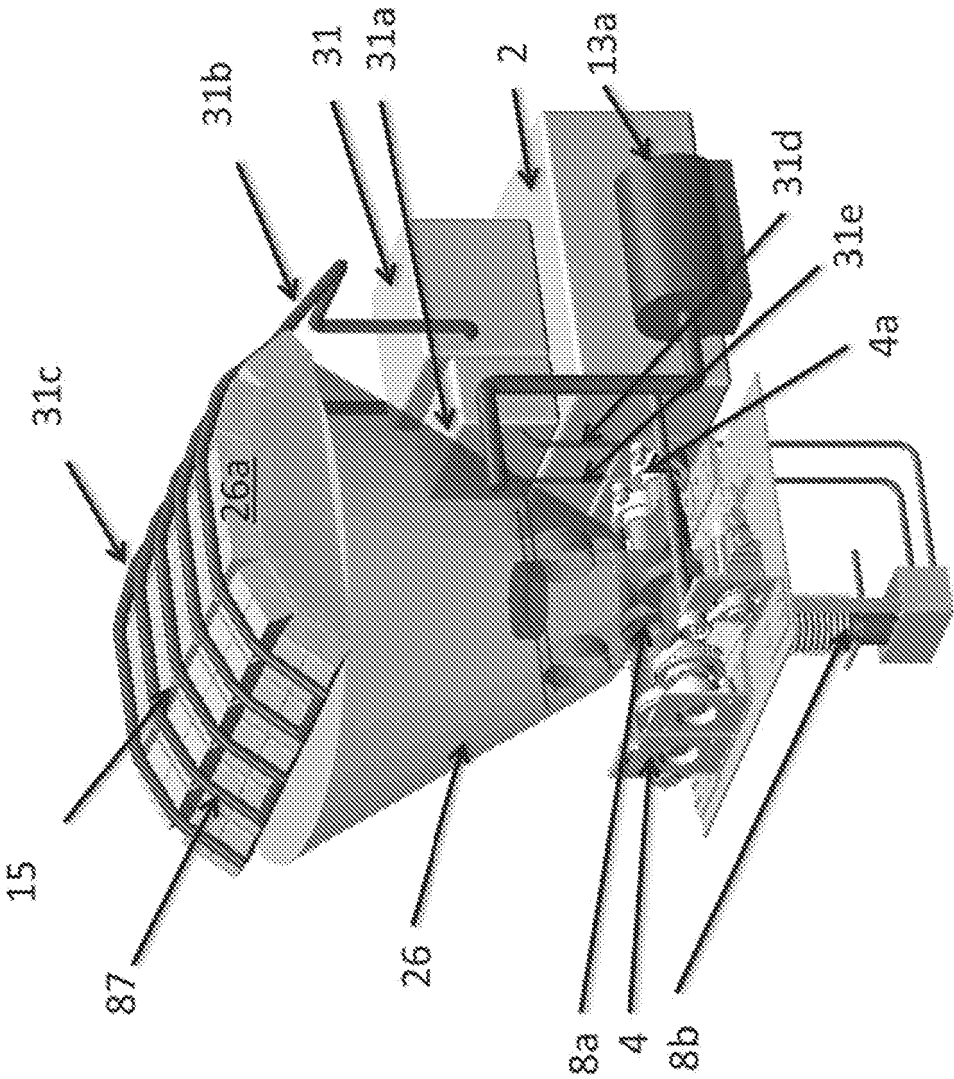
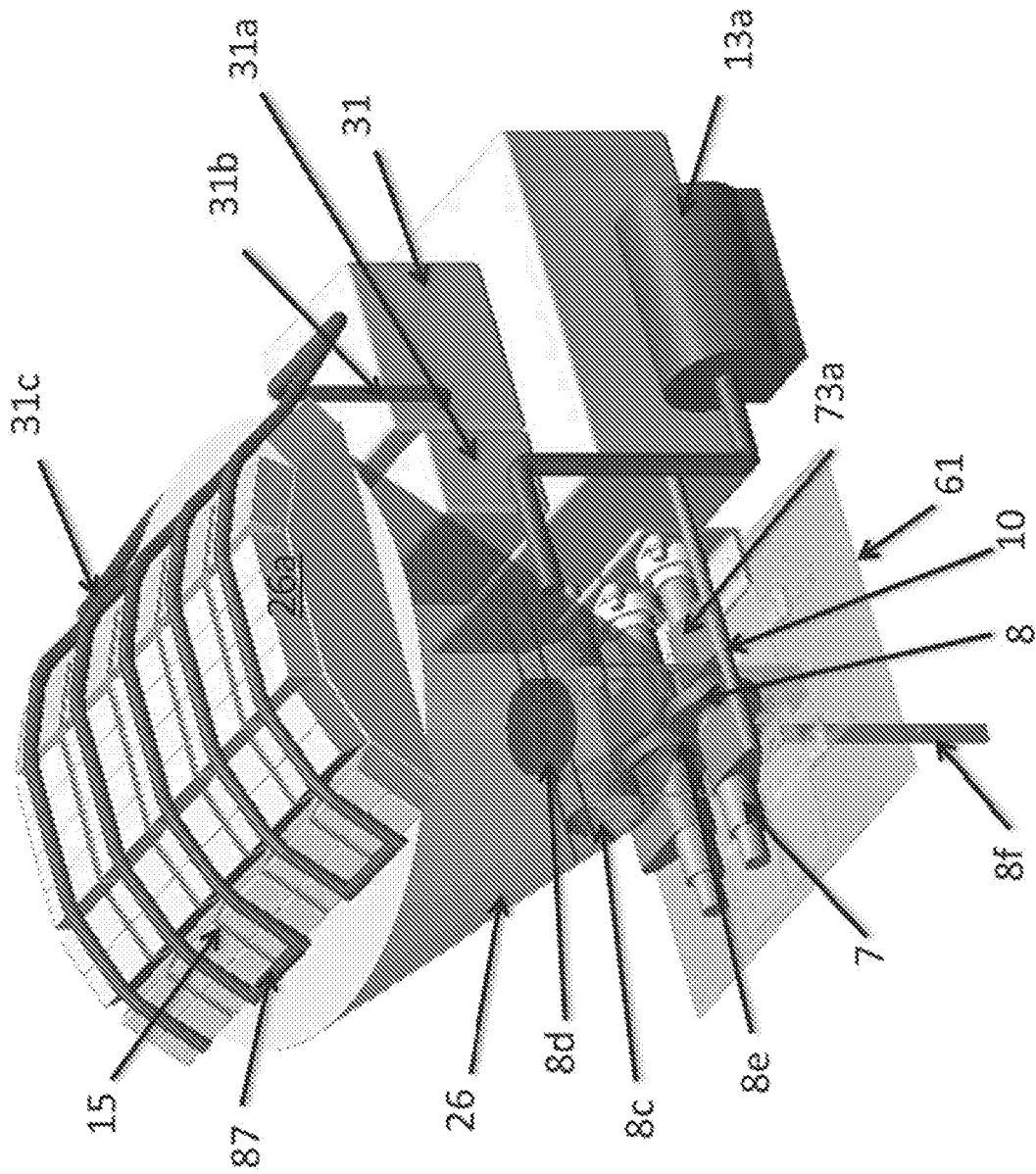
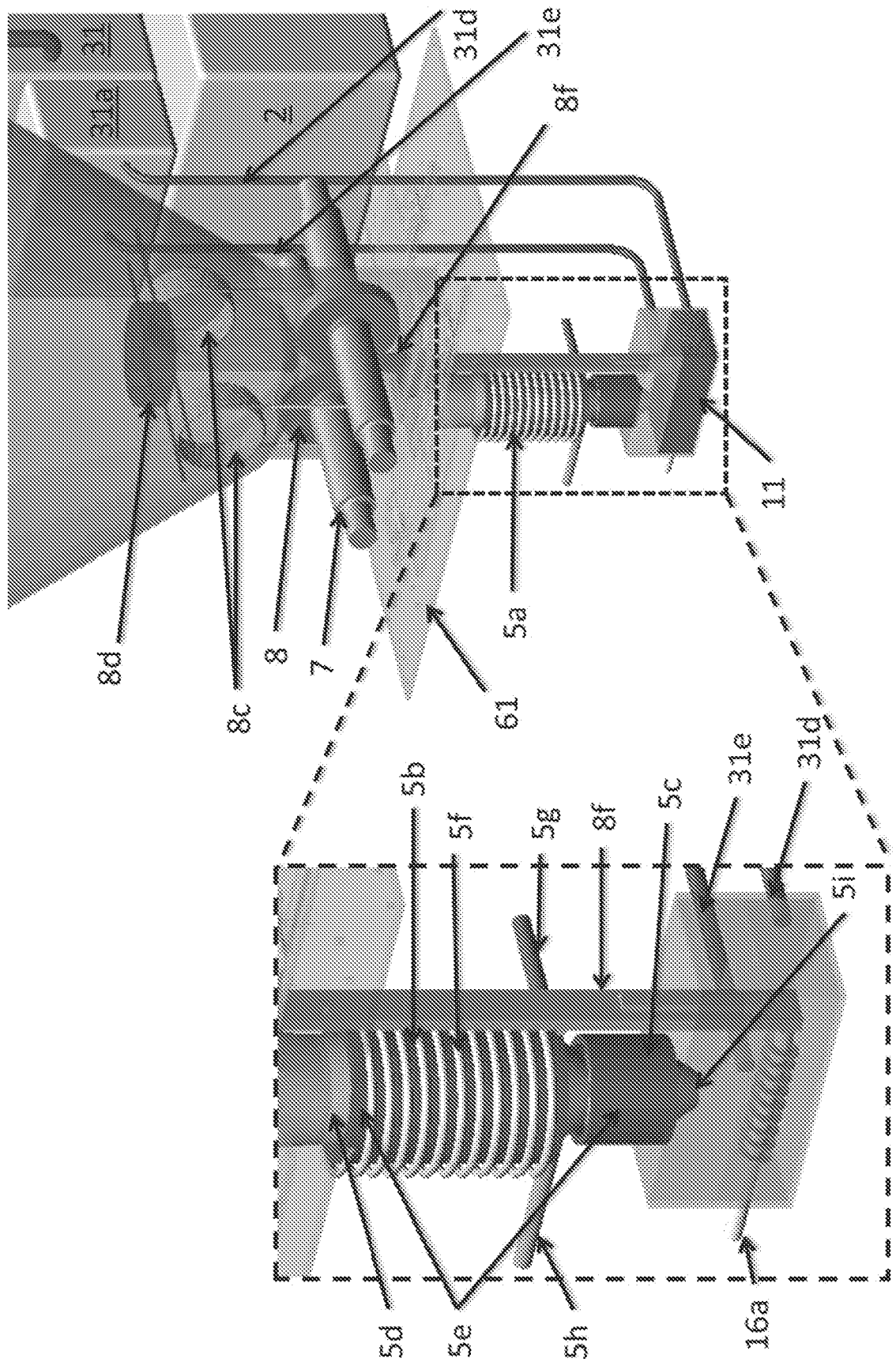


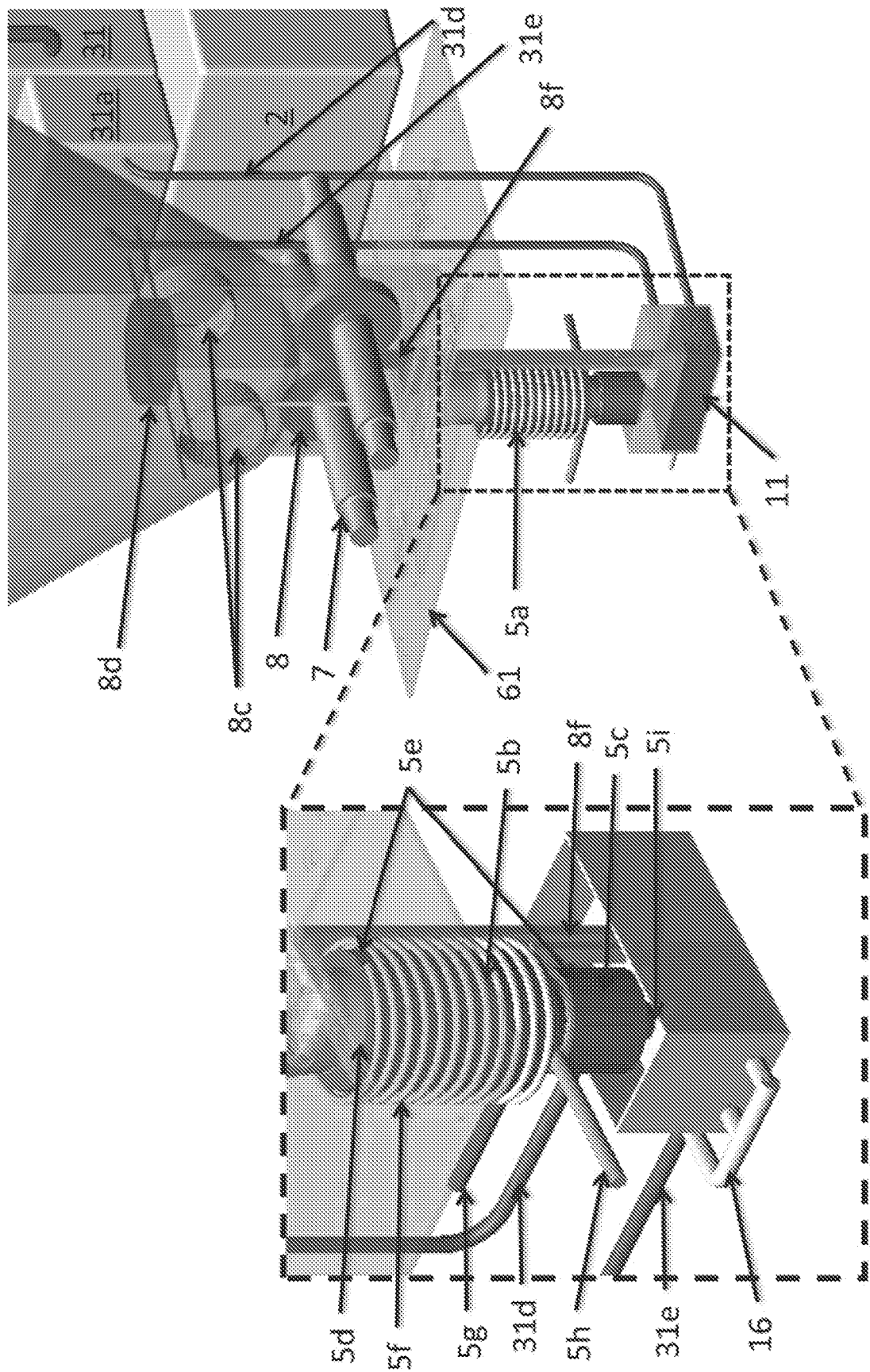
Fig. 213





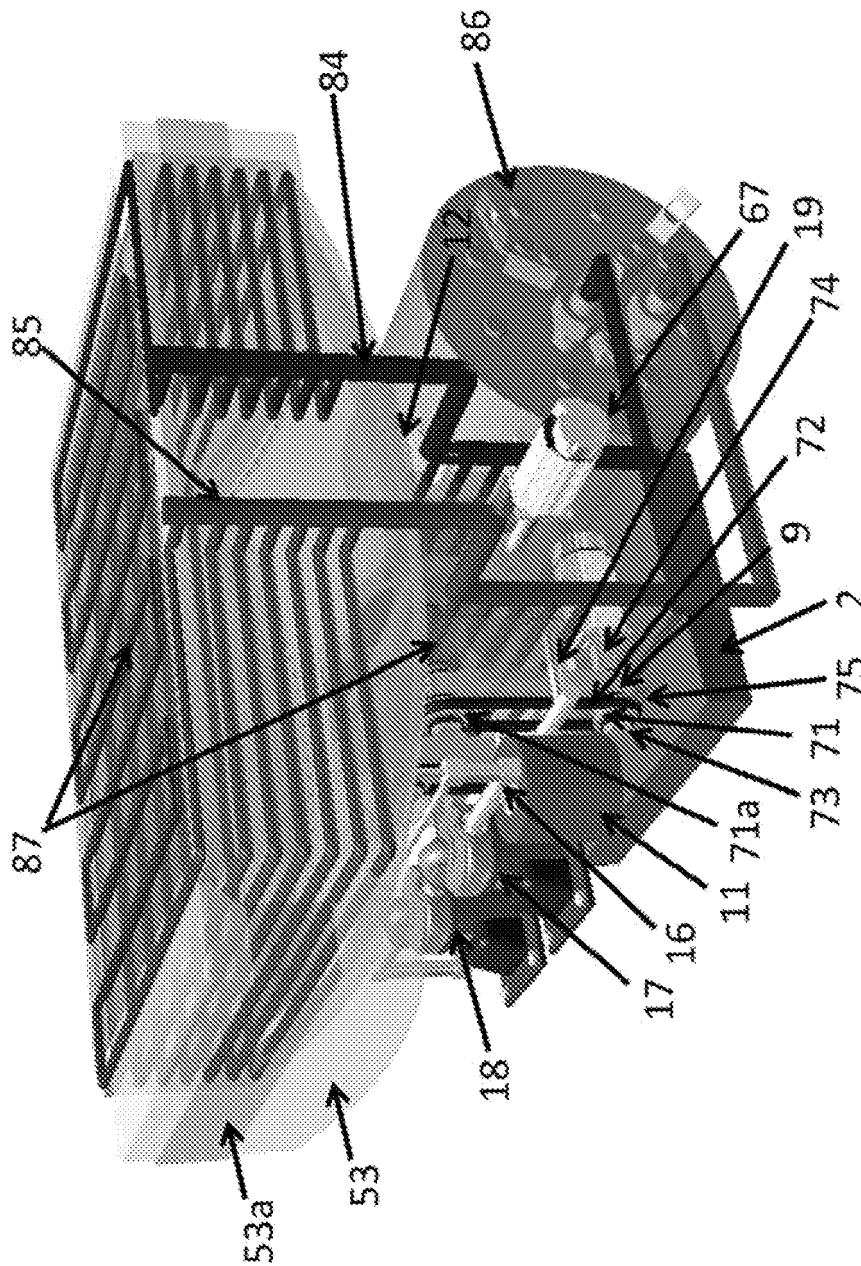
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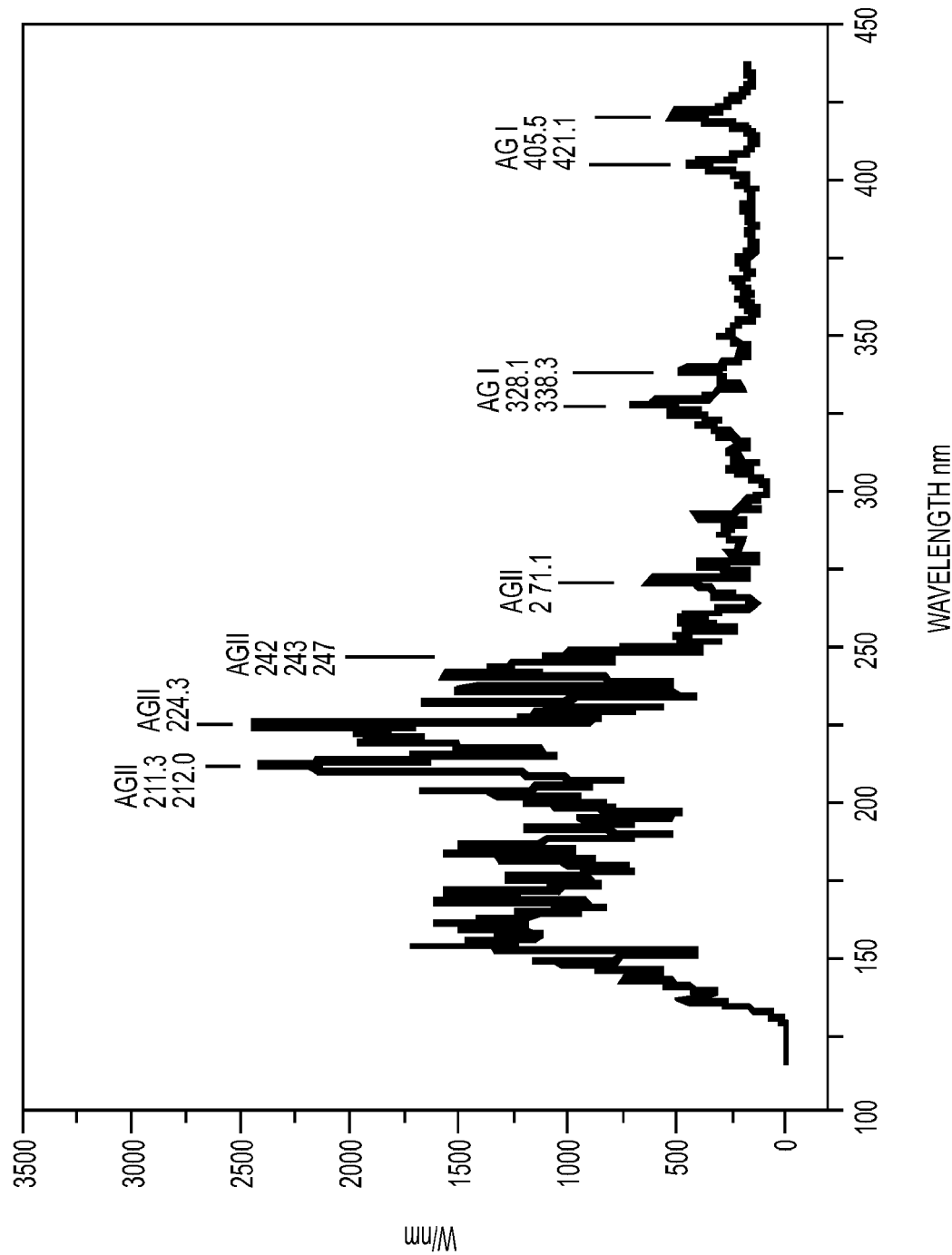
Fig. 215



200

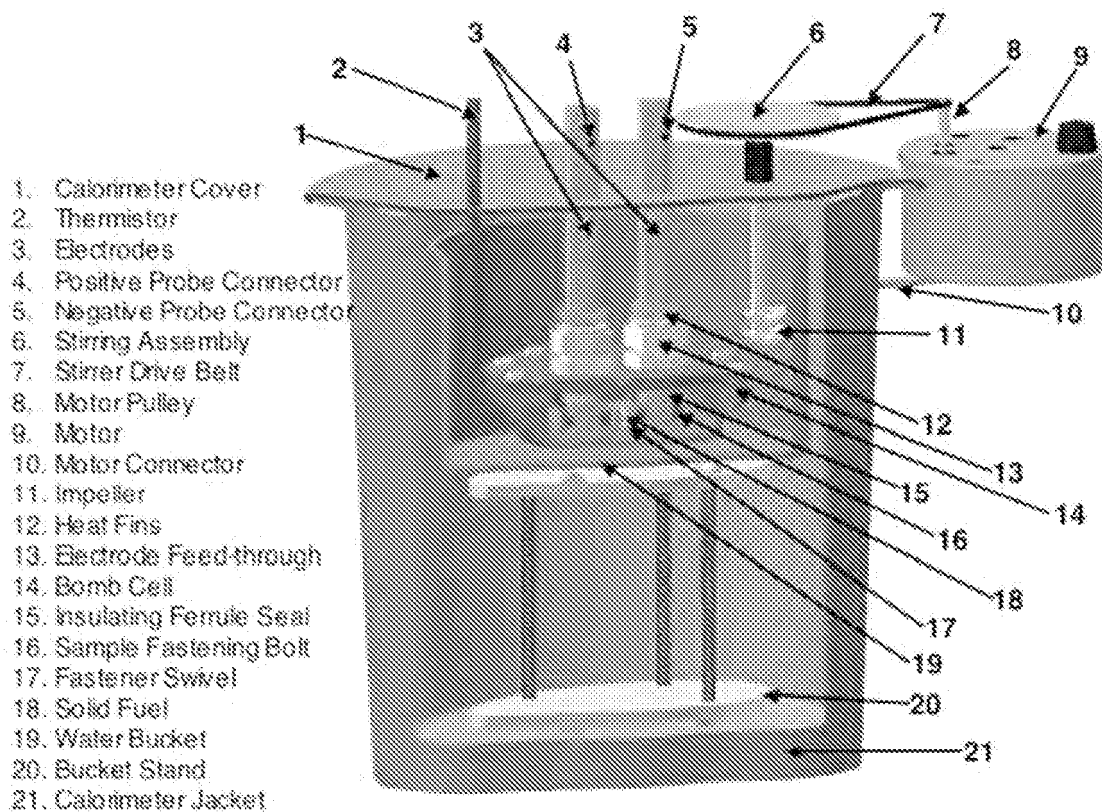
- |      |                                               |
|------|-----------------------------------------------|
| 2.   | Source of Electrical Power                    |
| 9.   | Pivoting Bus Bar                              |
| 17.  | Water Ejection Pump                           |
| 18.  | Water Sucking Pump                            |
| 19.  | Water Sucking Line                            |
| 67.  | Slurry Agitator Motor                         |
| 71.  | Bottom Indirect Drive Pulley                  |
| 71a. | Top Indirect Drive Pulley                     |
| 72.  | Shaft Drive Belt                              |
| 73.  | Drive Shaft Bearing                           |
| 74.  | Drive Shaft                                   |
| 75.  | Wire Connector                                |
| 84.  | Coolant Inlet Line                            |
| 85.  | Coolant Outlet Line                           |
| 86.  | Heat Exchanger, Boiler, Turbine,<br>Generator |
| 87.  | Heat Exchanger                                |

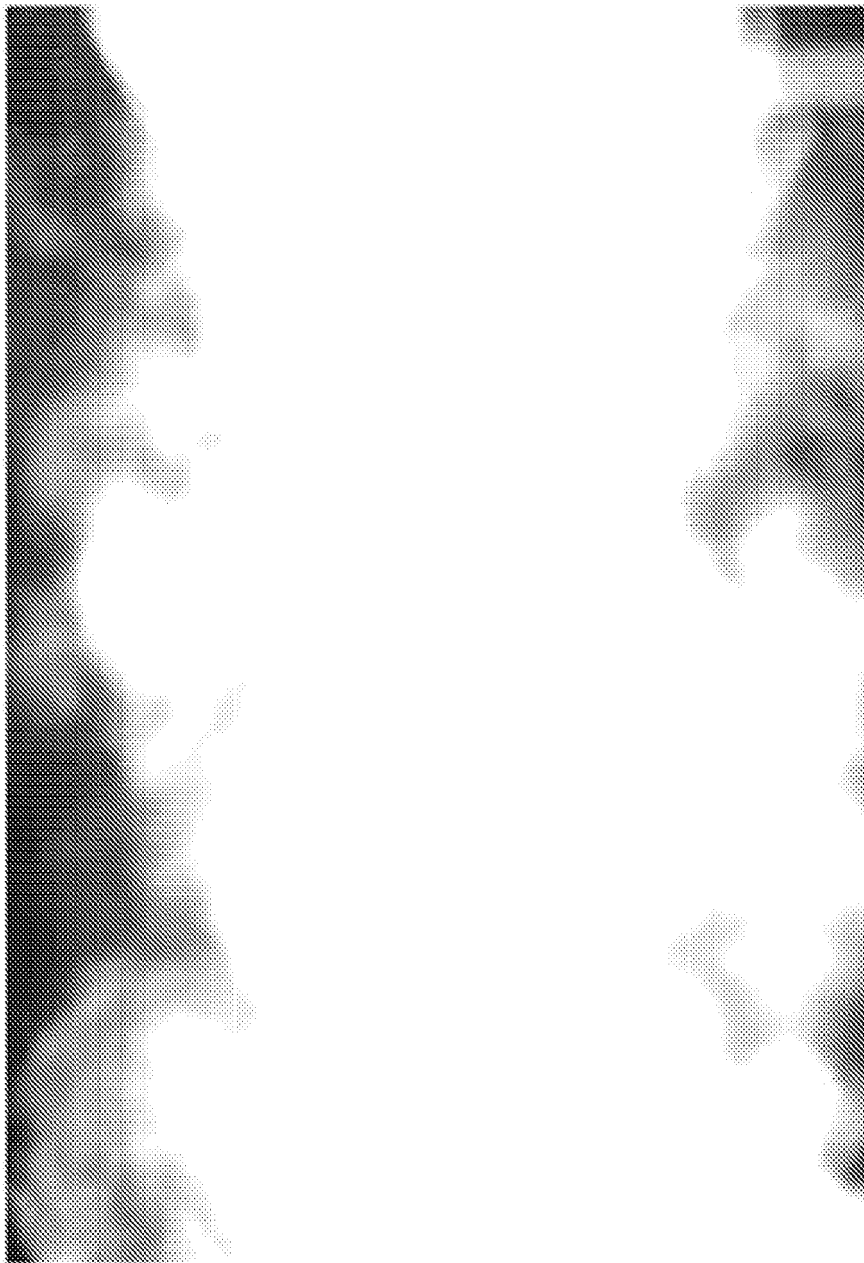




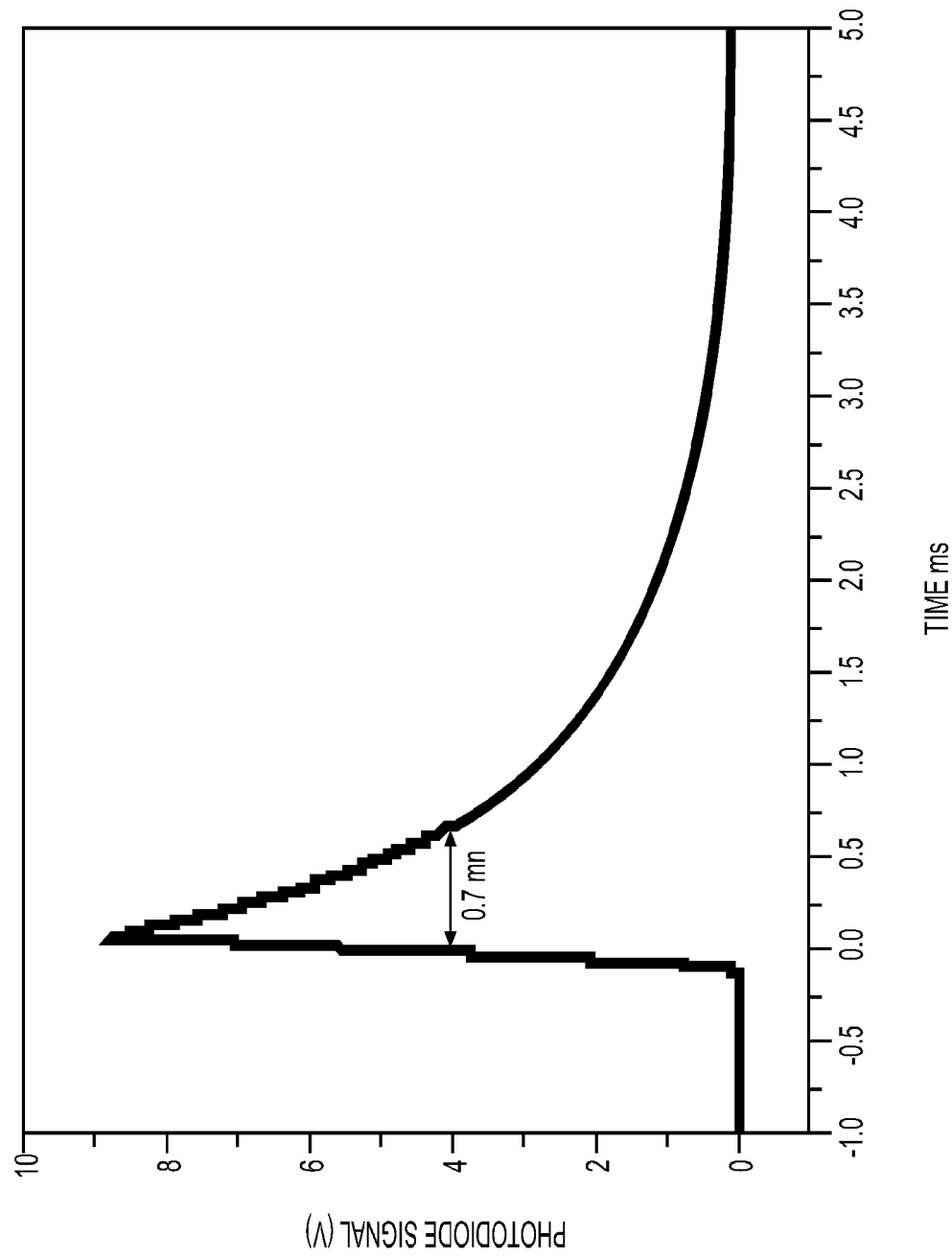
**FIG. 3**

Fig. 4





**FIG. 5**



**FIG. 6**

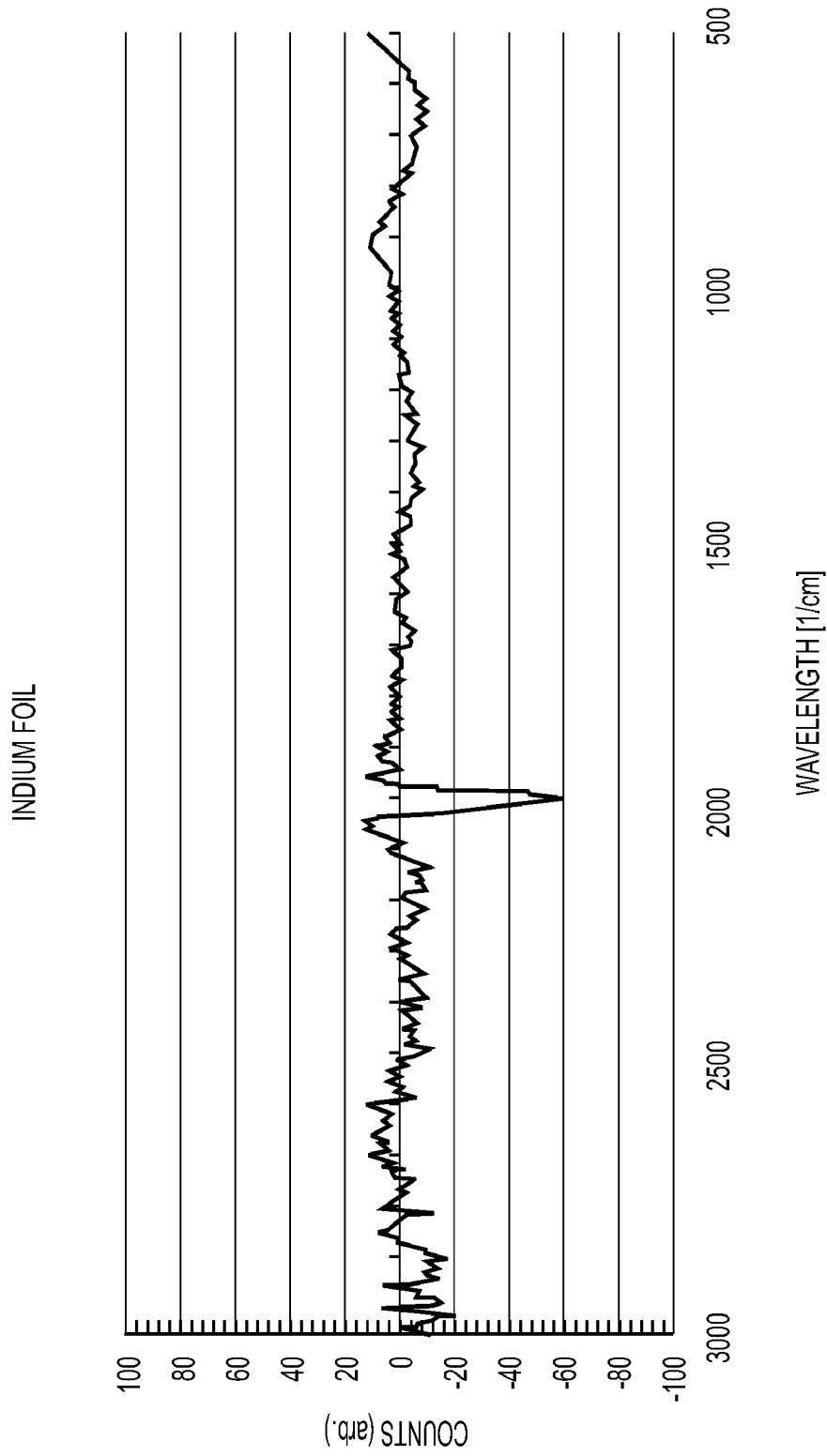
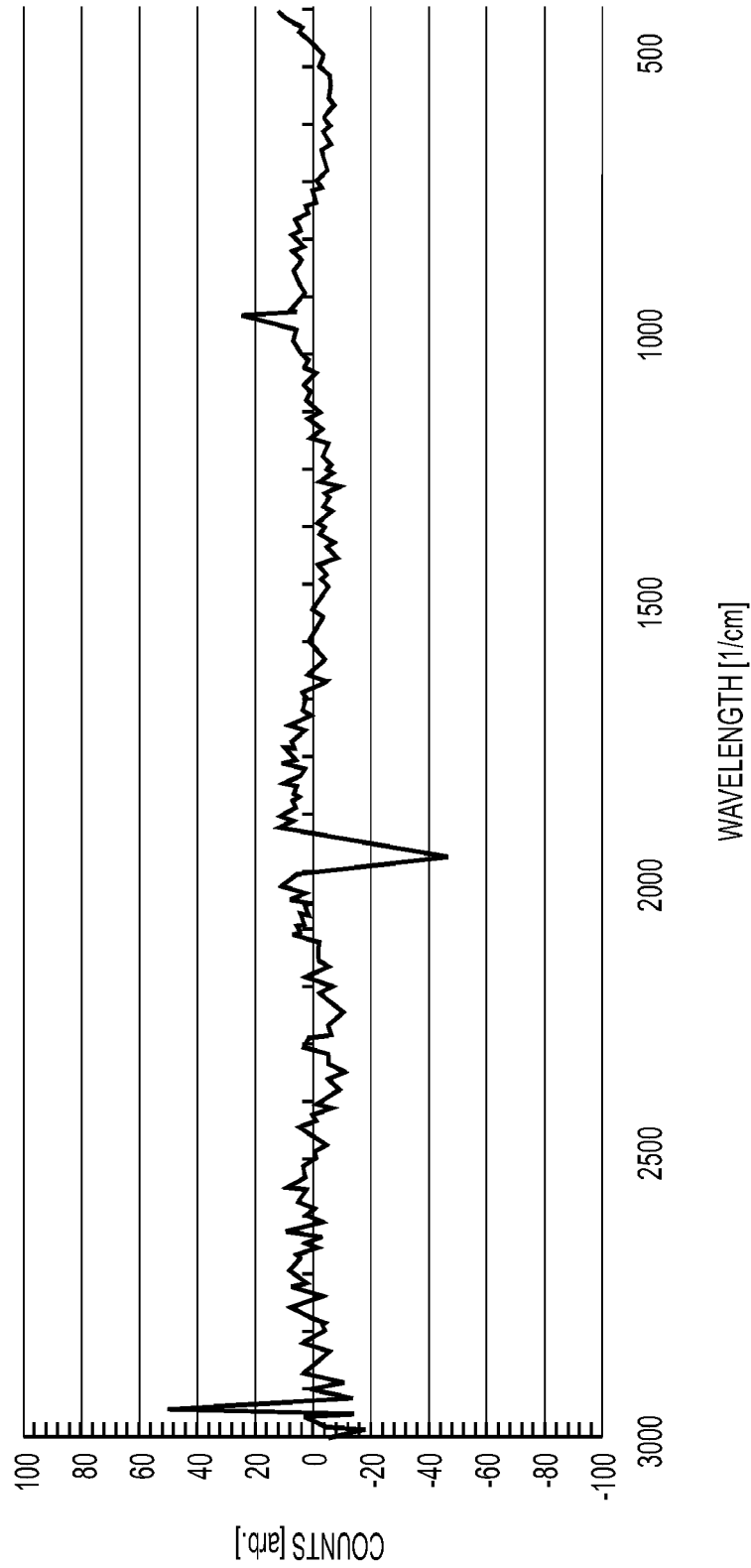
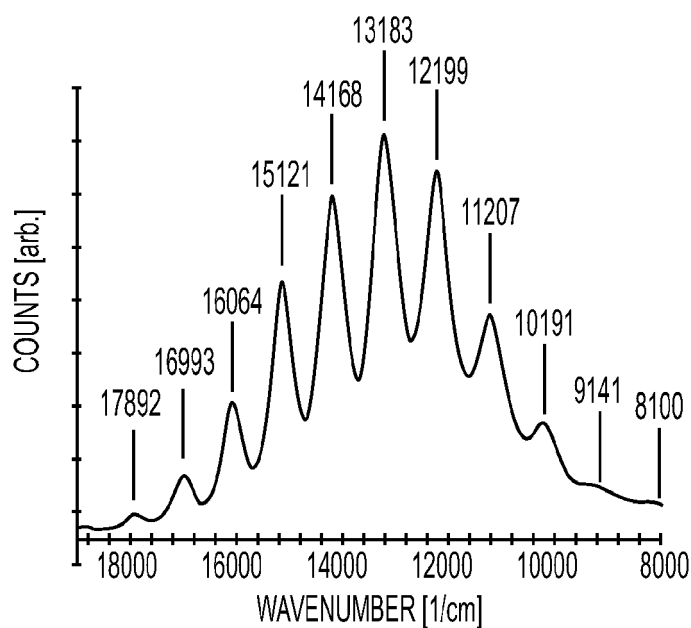
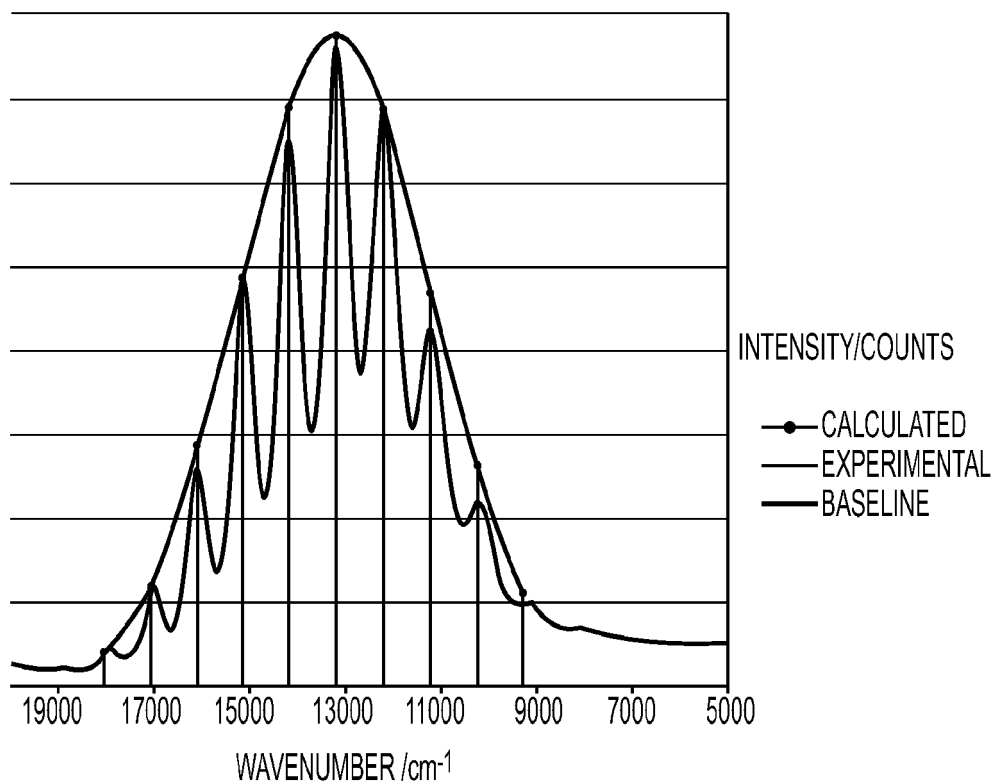


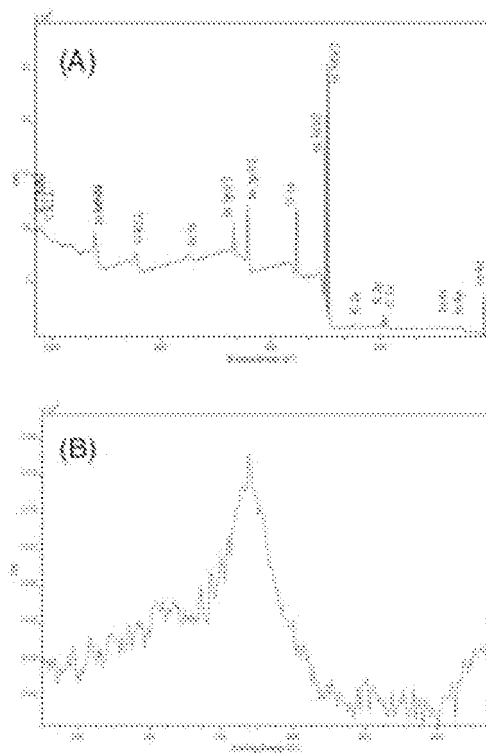
FIG. 7



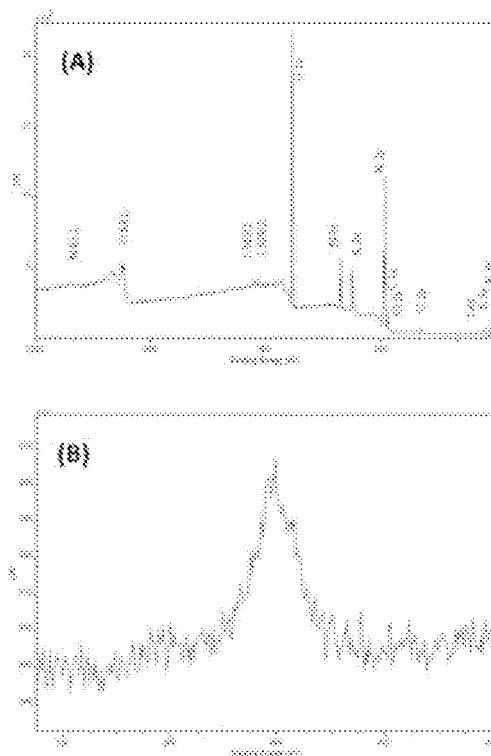
**FIG. 8**

**FIG. 9****FIG. 10**

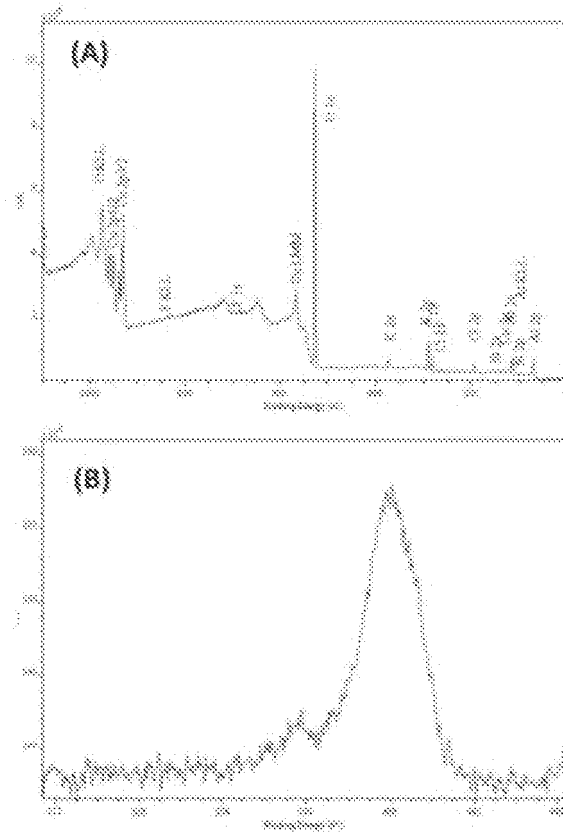
Figs. 11A-B



Figs. 12A-B



Figs. 13A-B



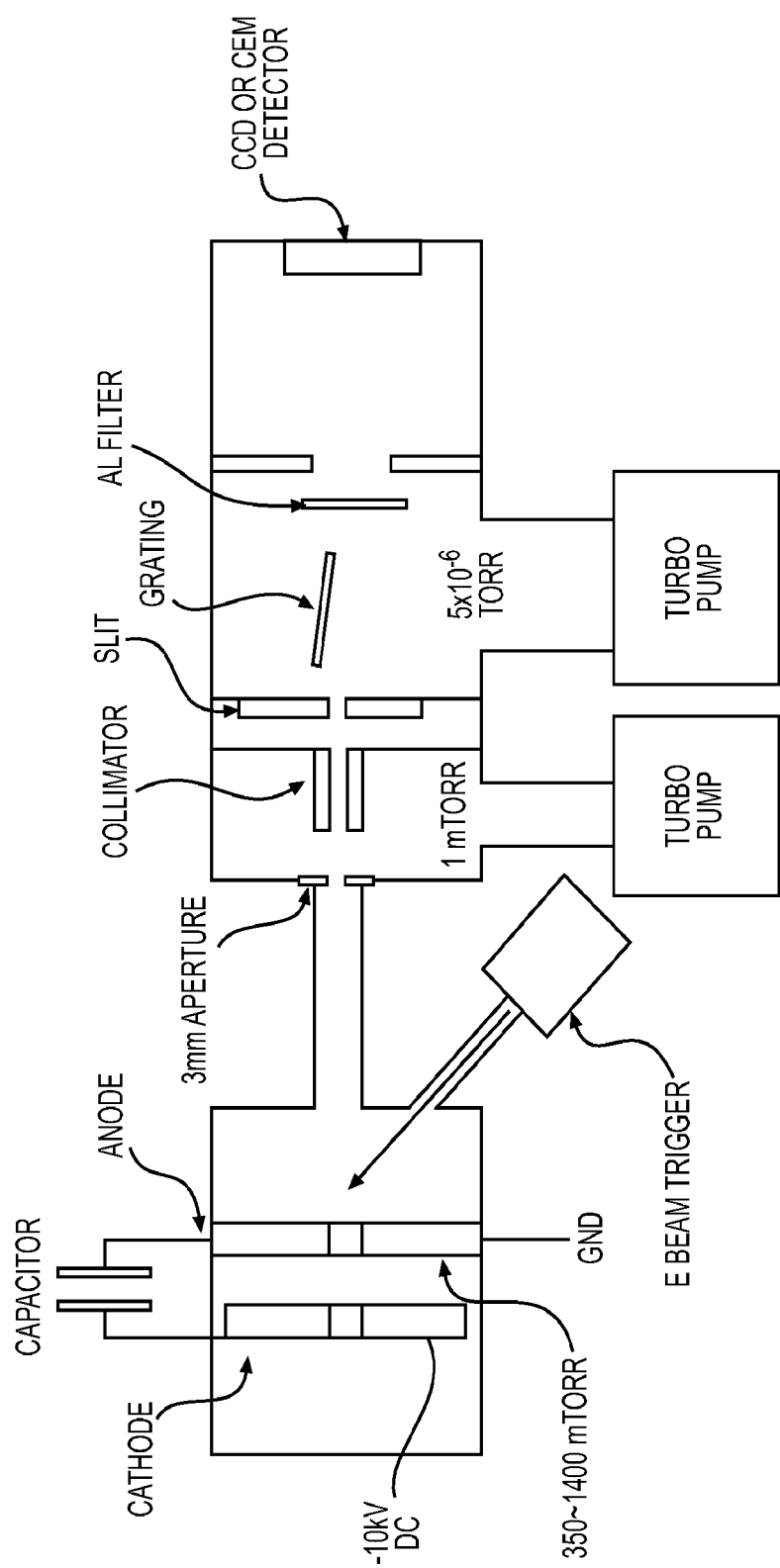
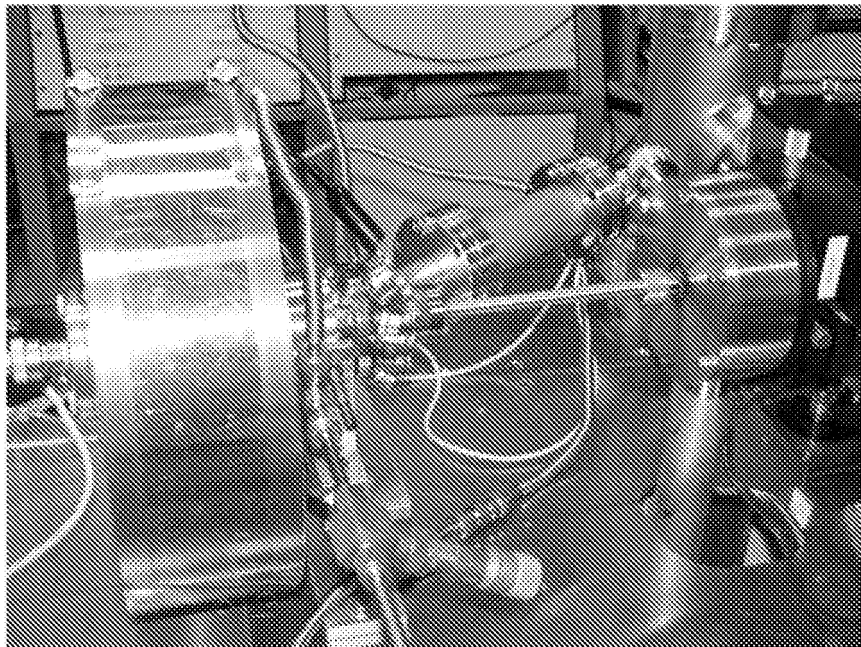
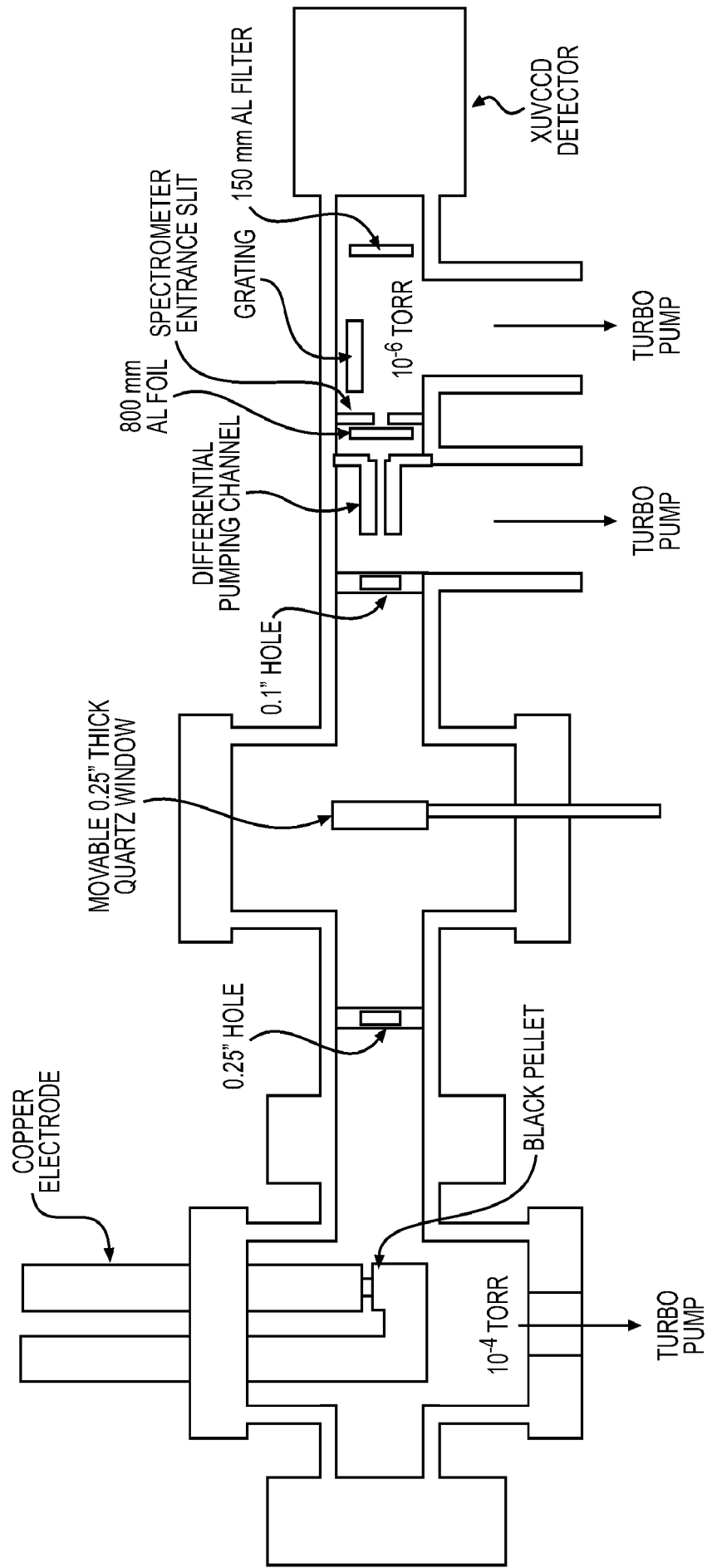


FIG. 14

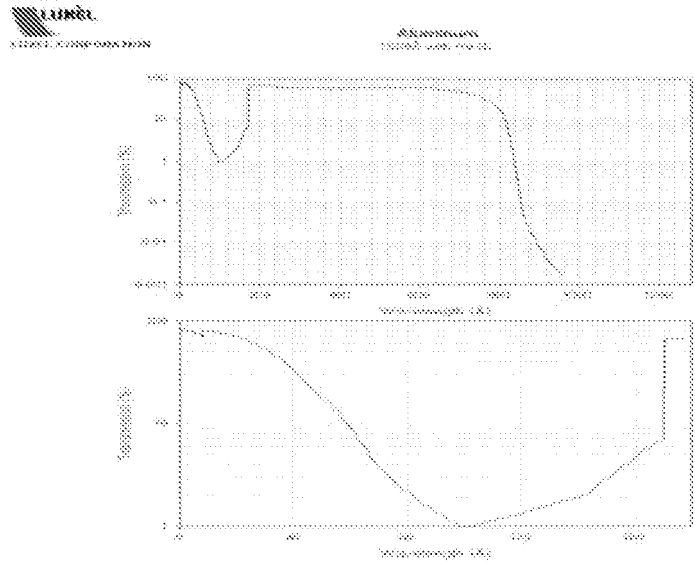
Fig. 15



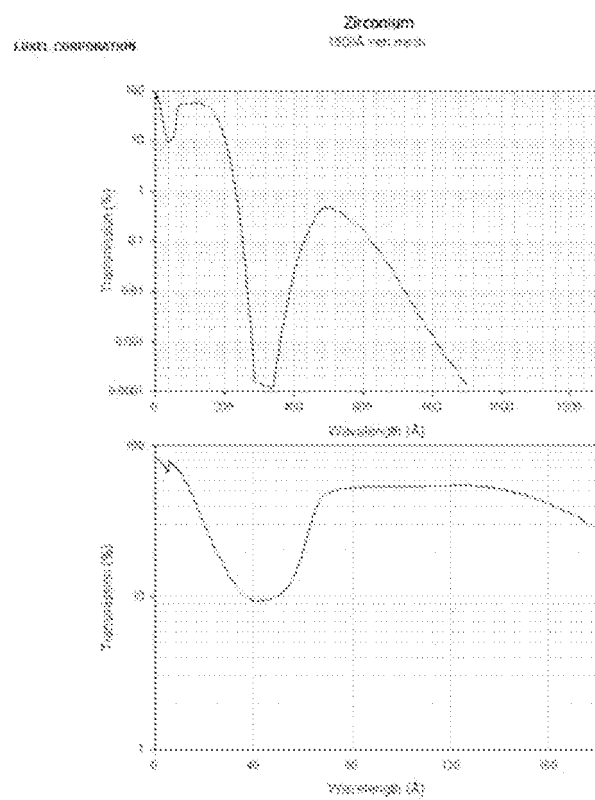


**FIG. 16**

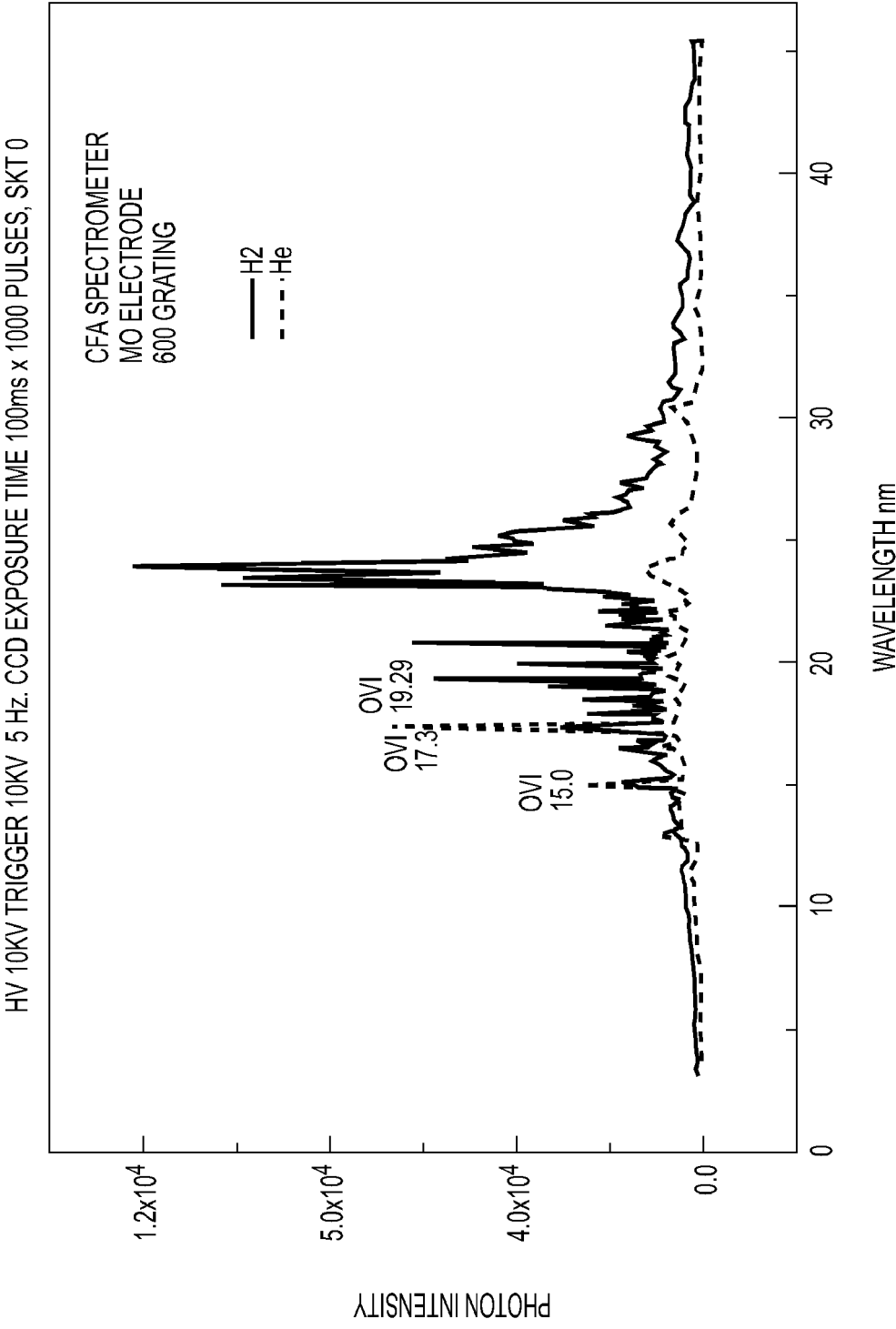
Figs. 17A-B



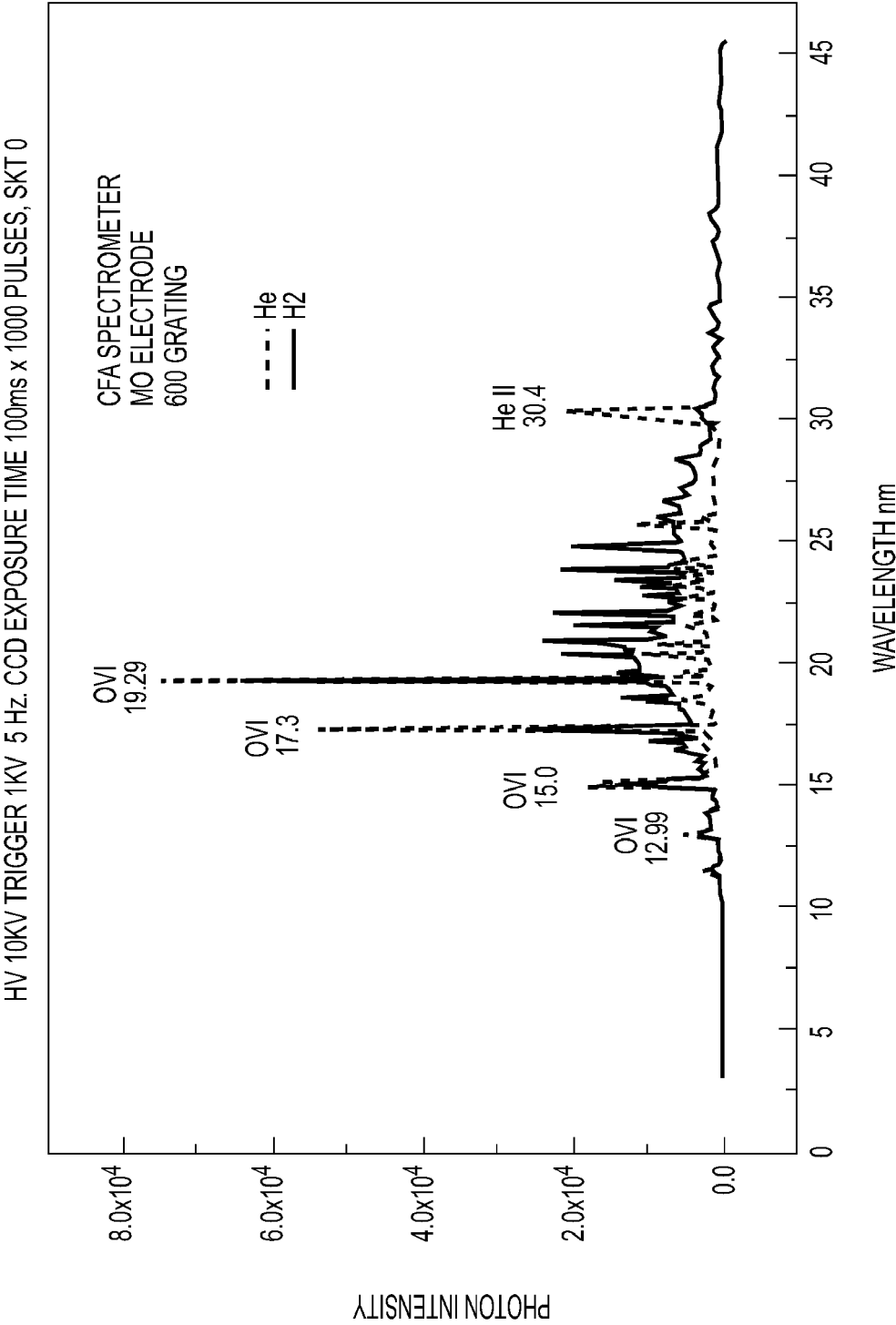
(A)



(B)



**FIG. 18A**



**FIG. 18B**

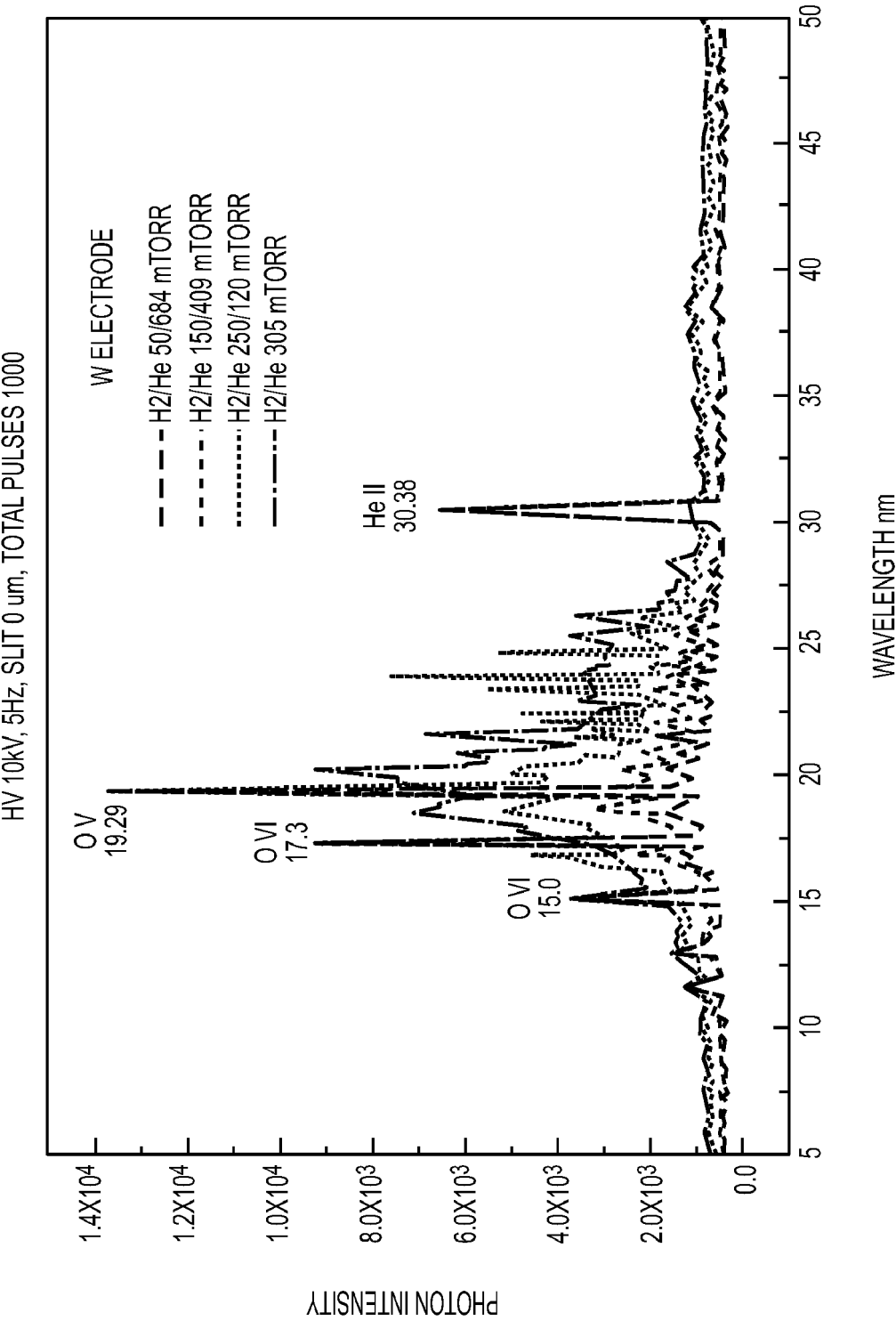
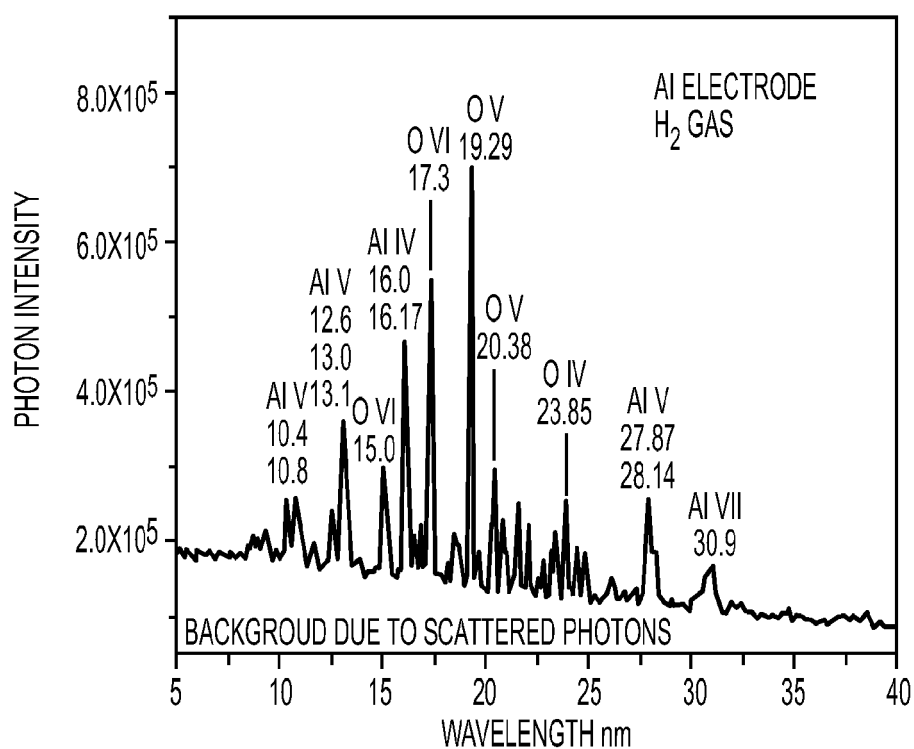
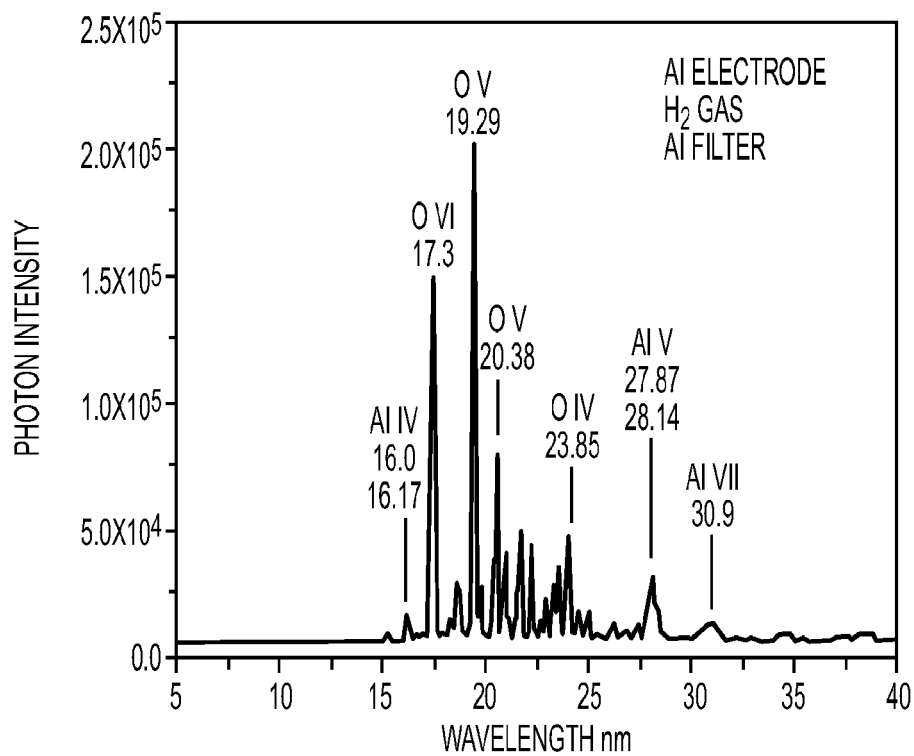
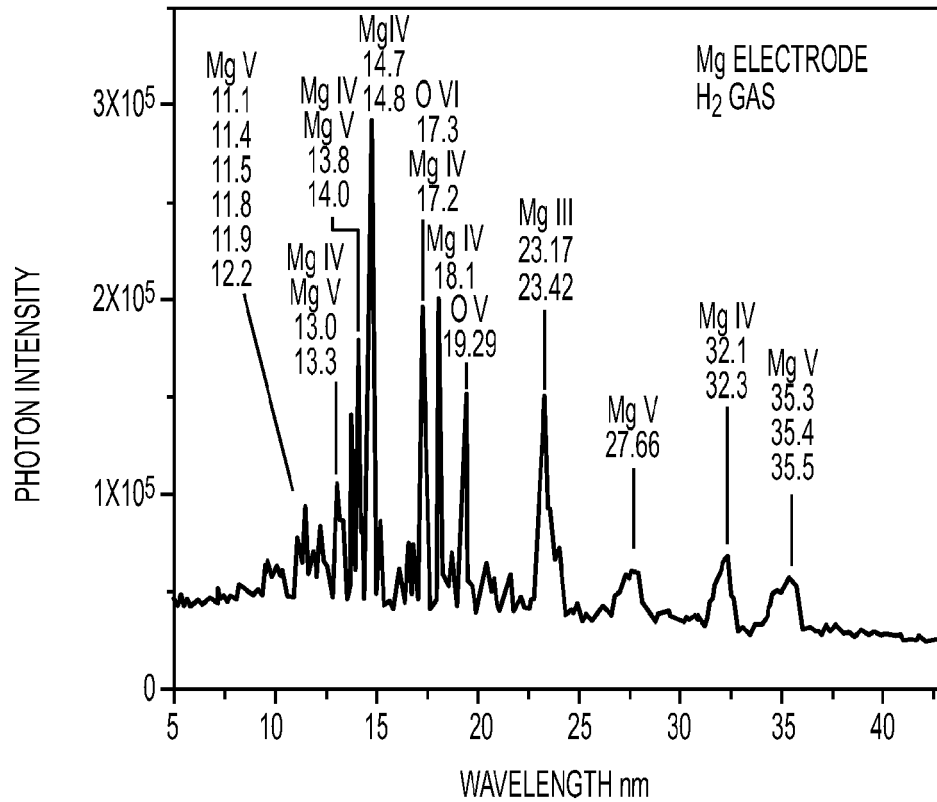
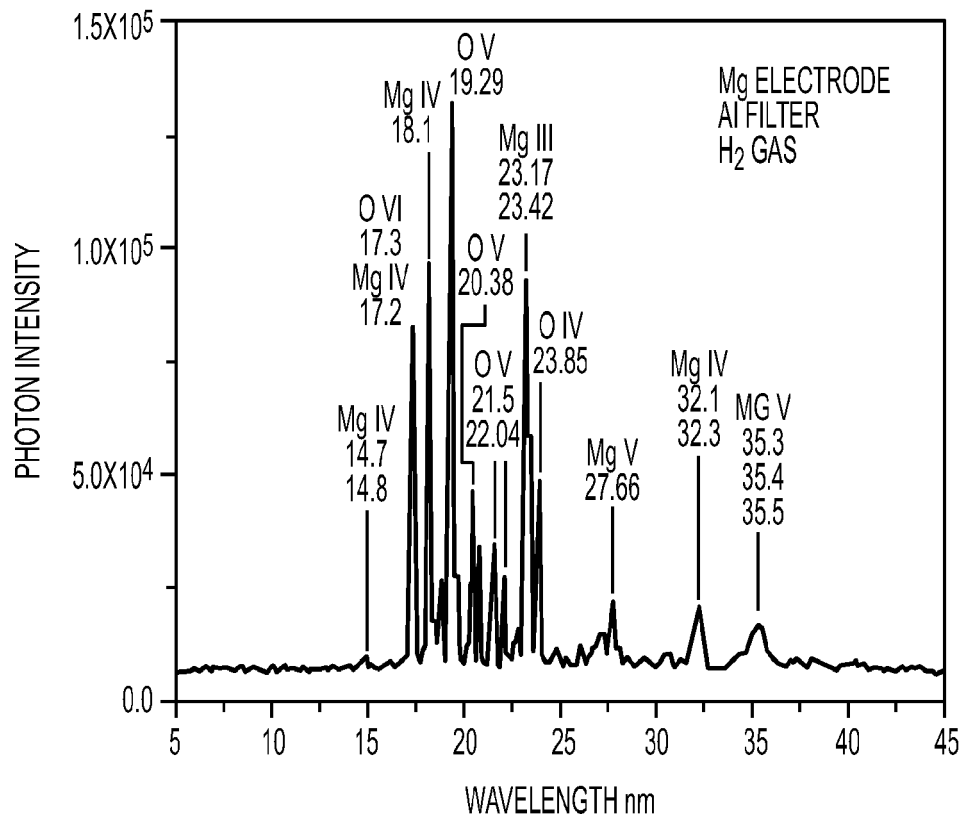
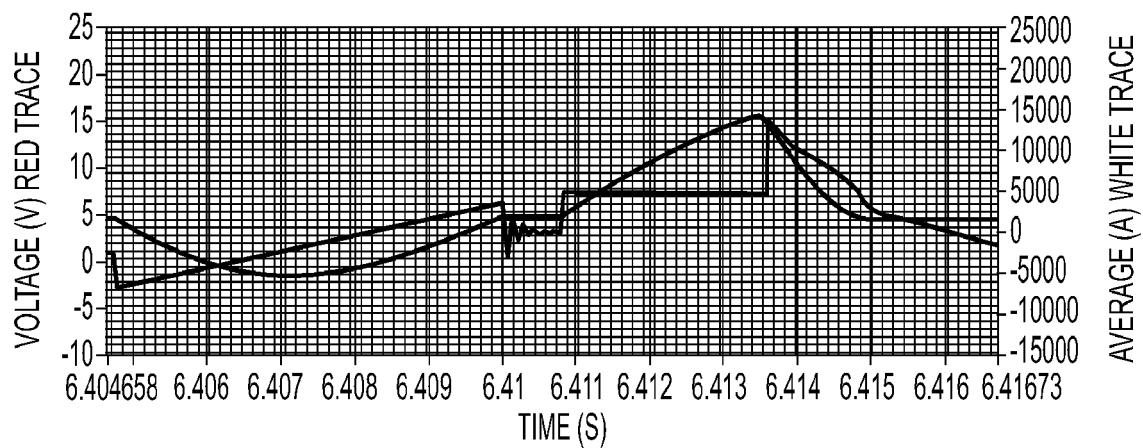
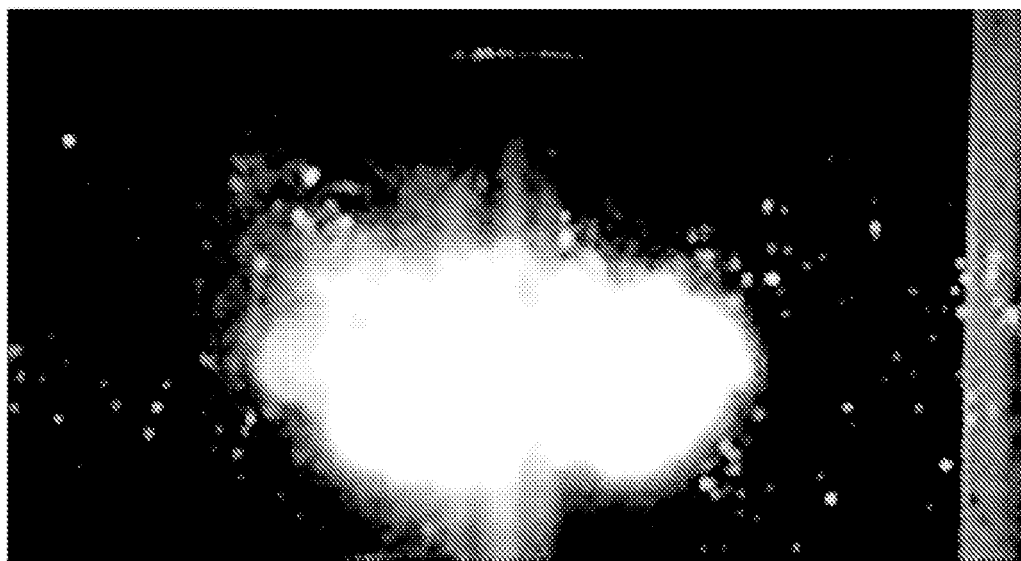
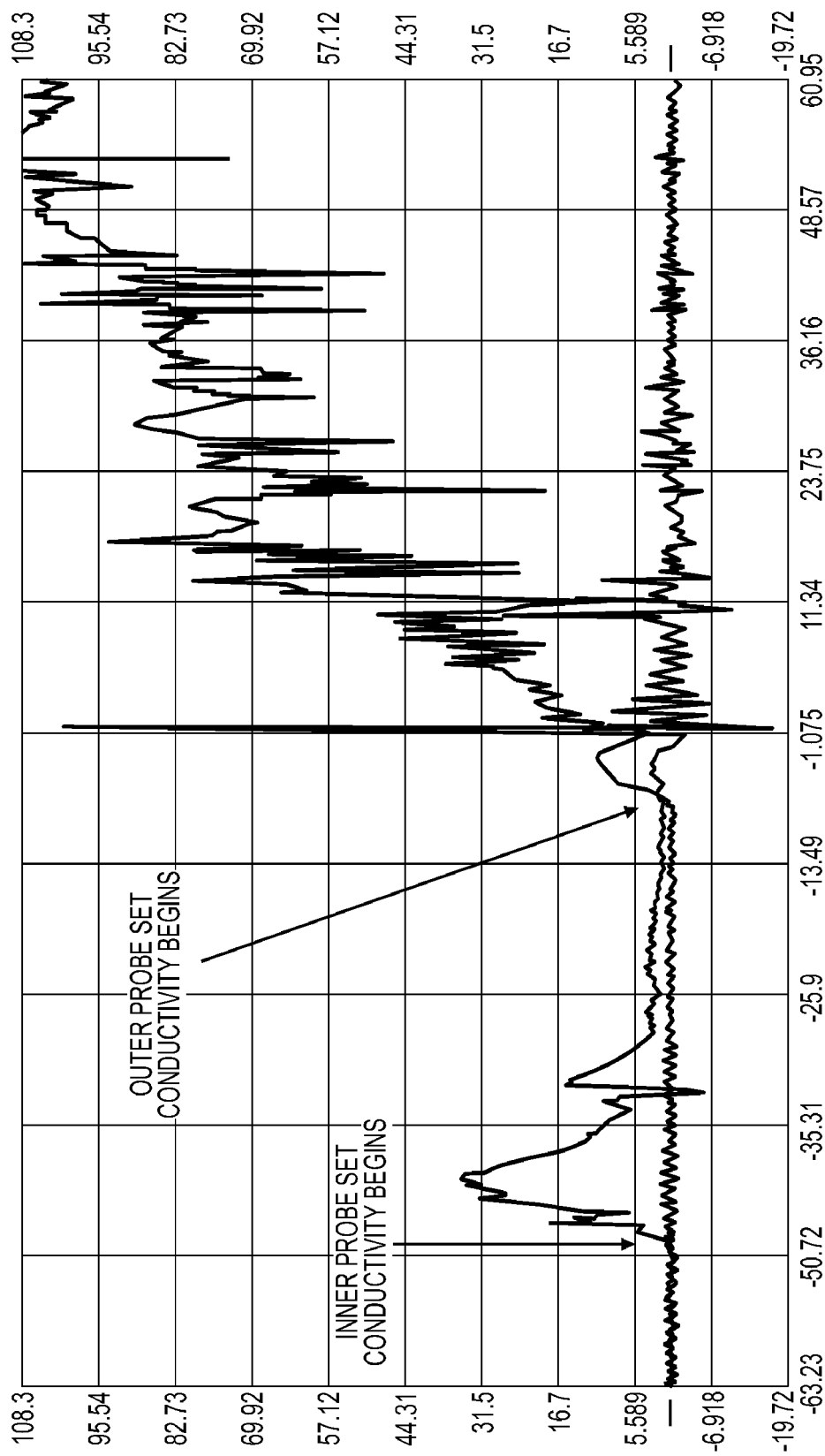


FIG. 19

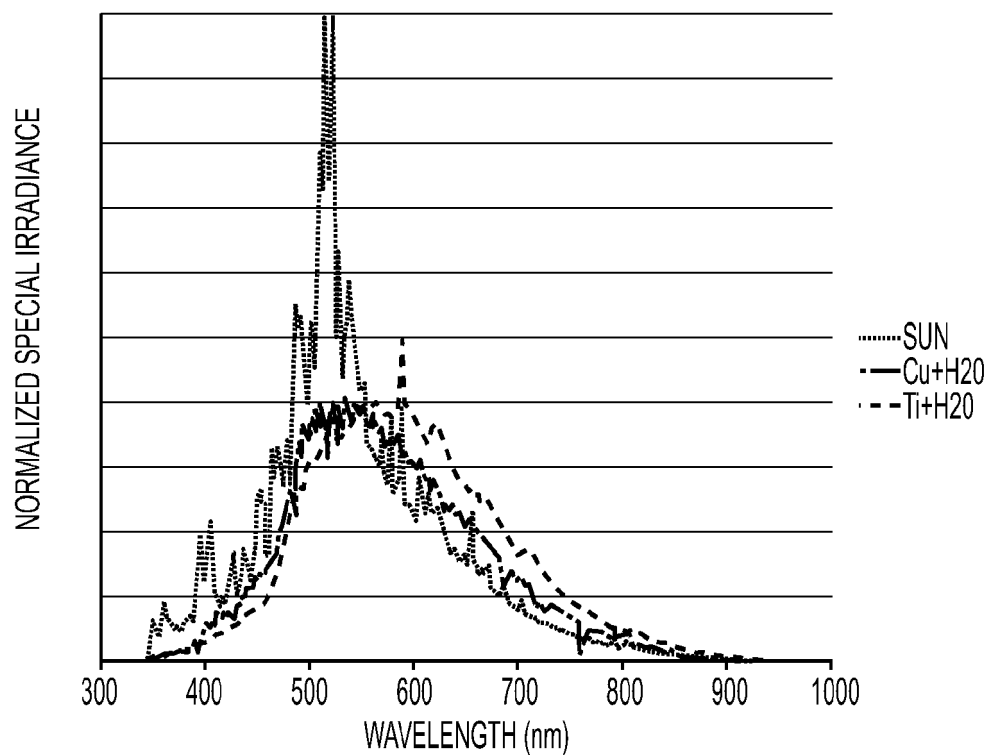
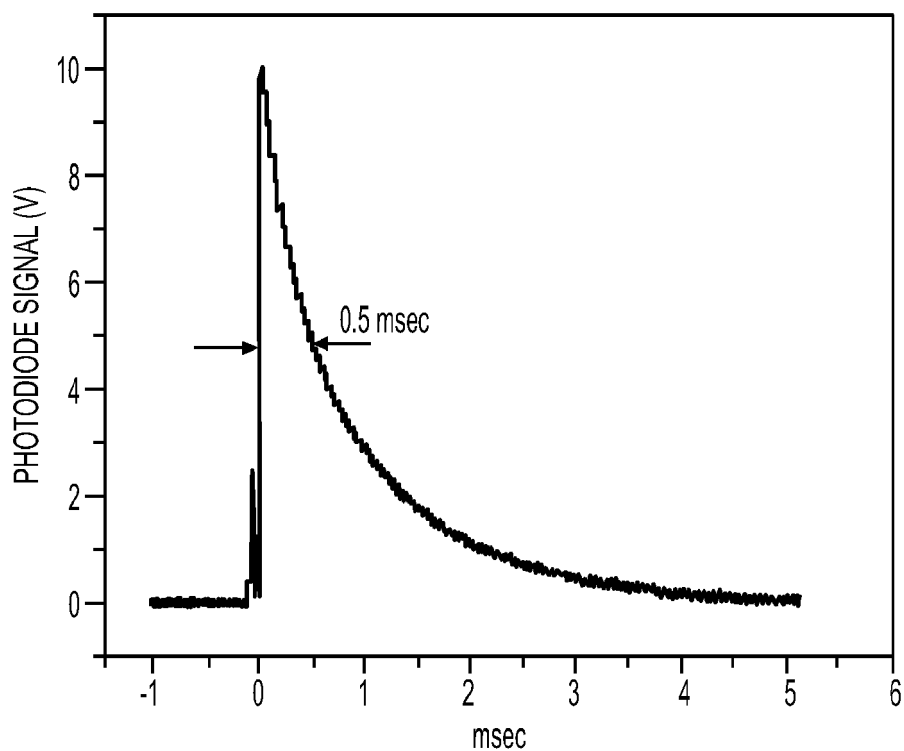
**FIG. 20A****FIG. 20B**

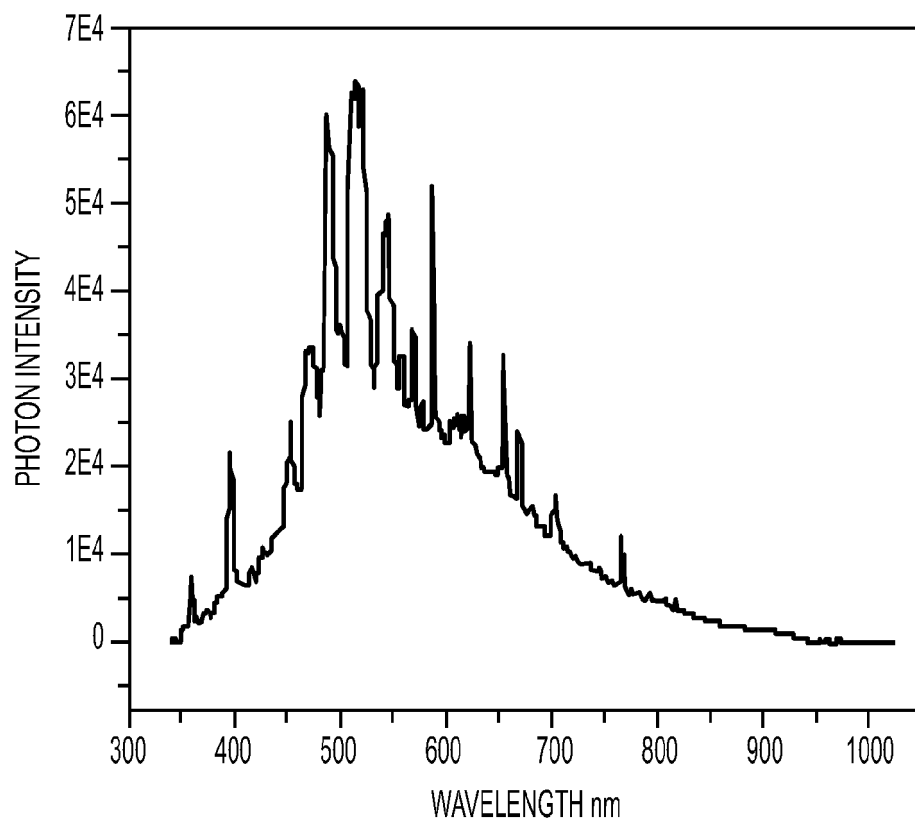
**FIG. 20C****FIG. 20D**

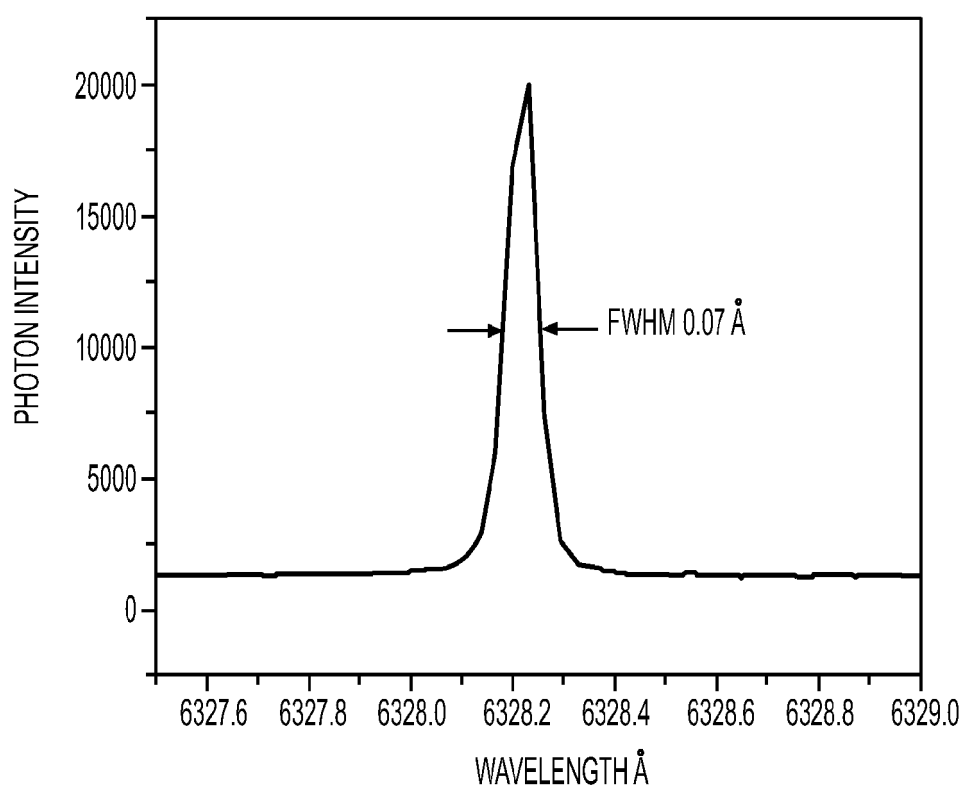
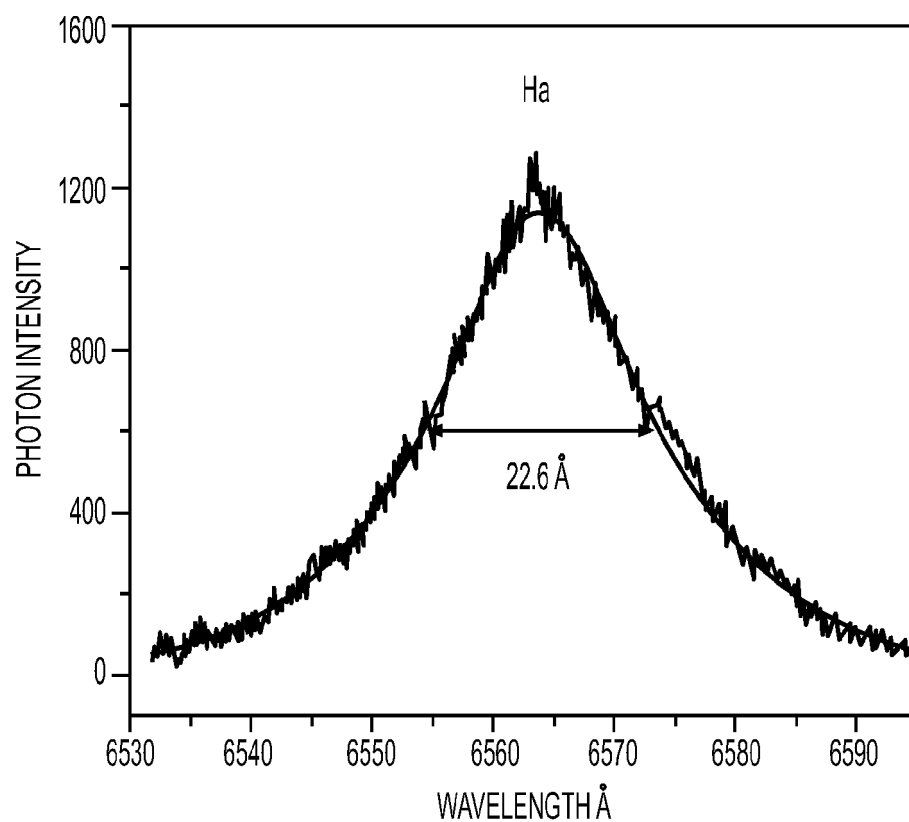
**FIG. 21A****FIG. 21B**

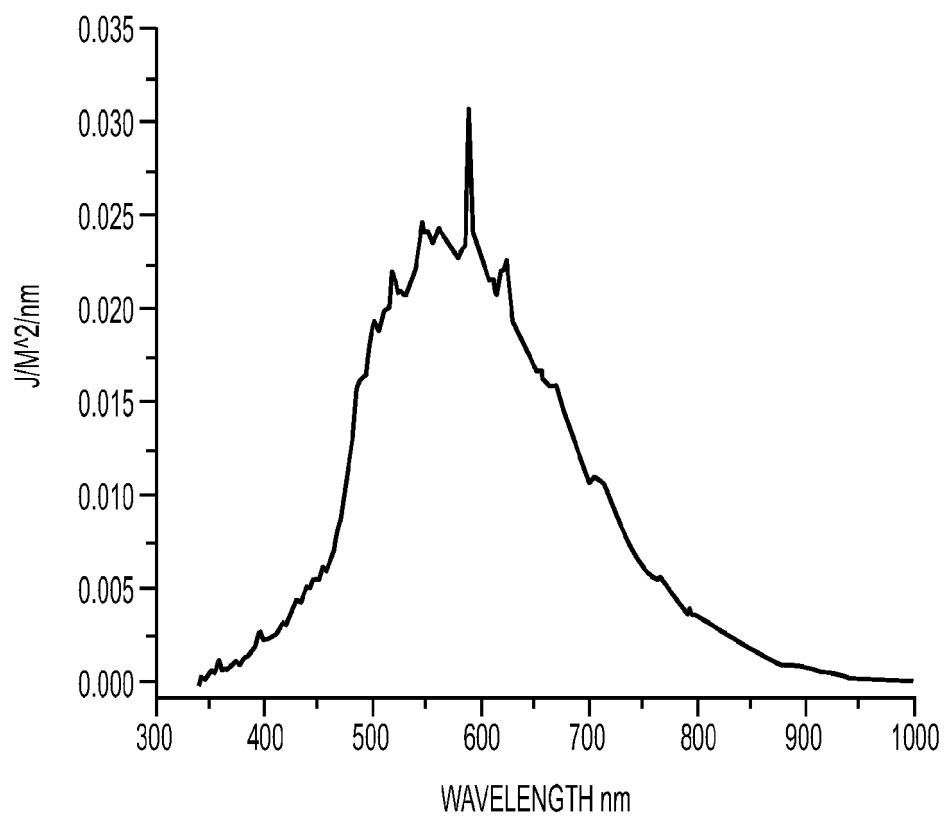


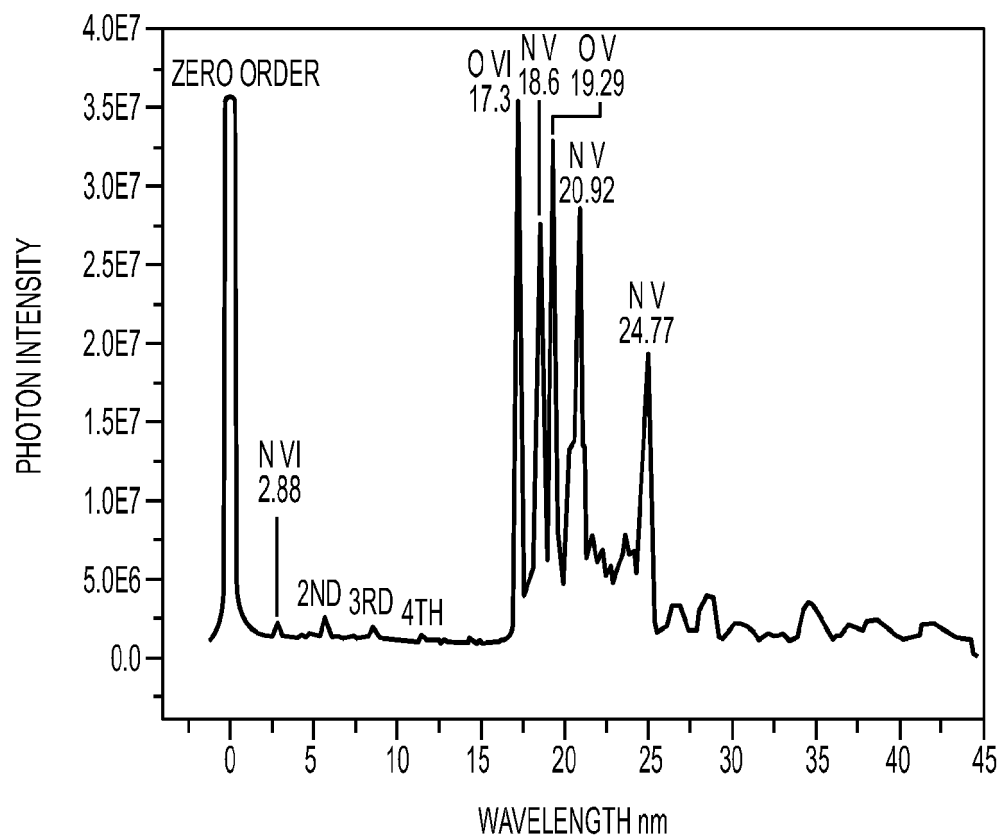
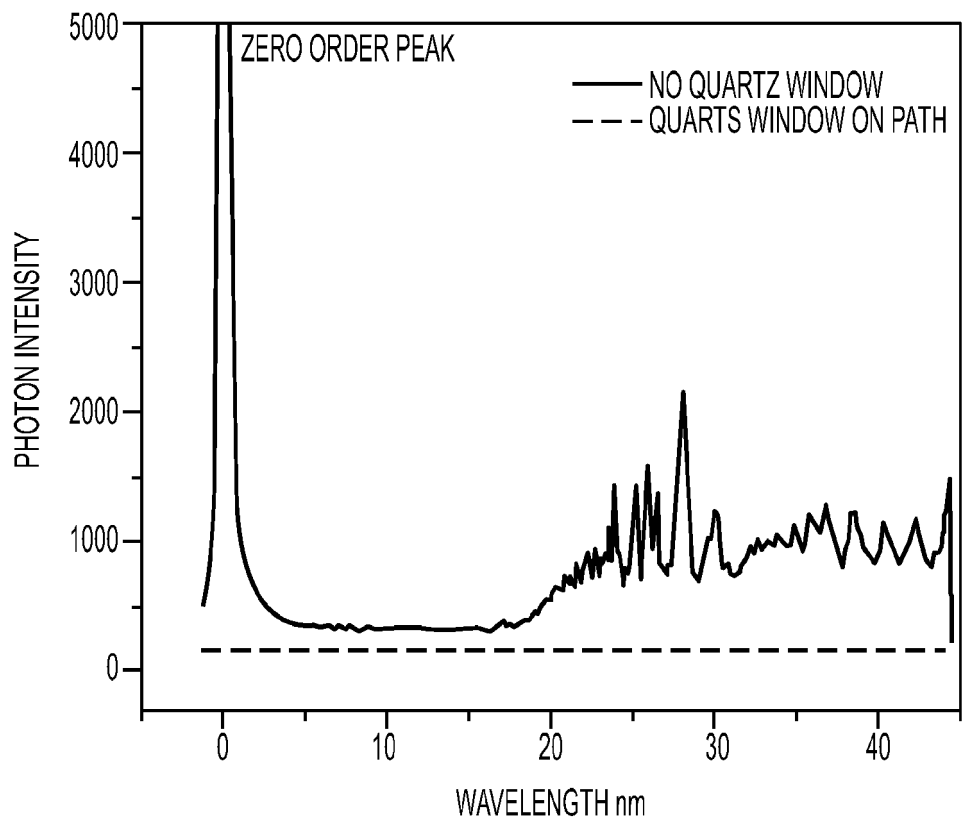
**FIG. 22**

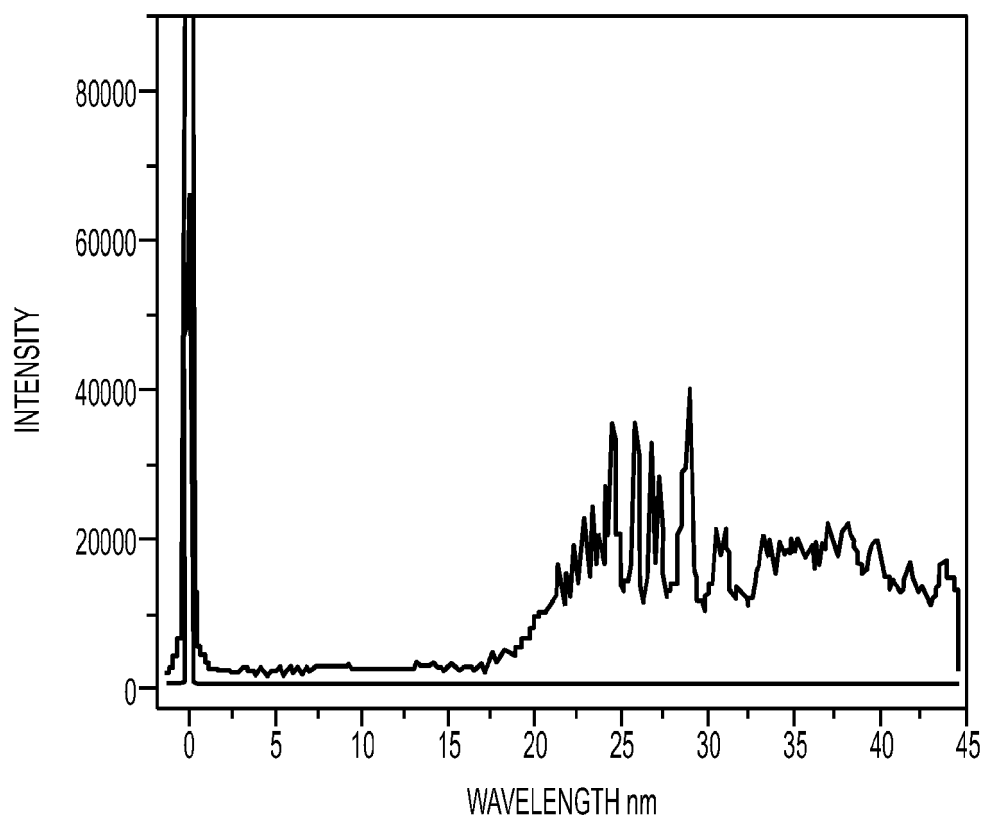
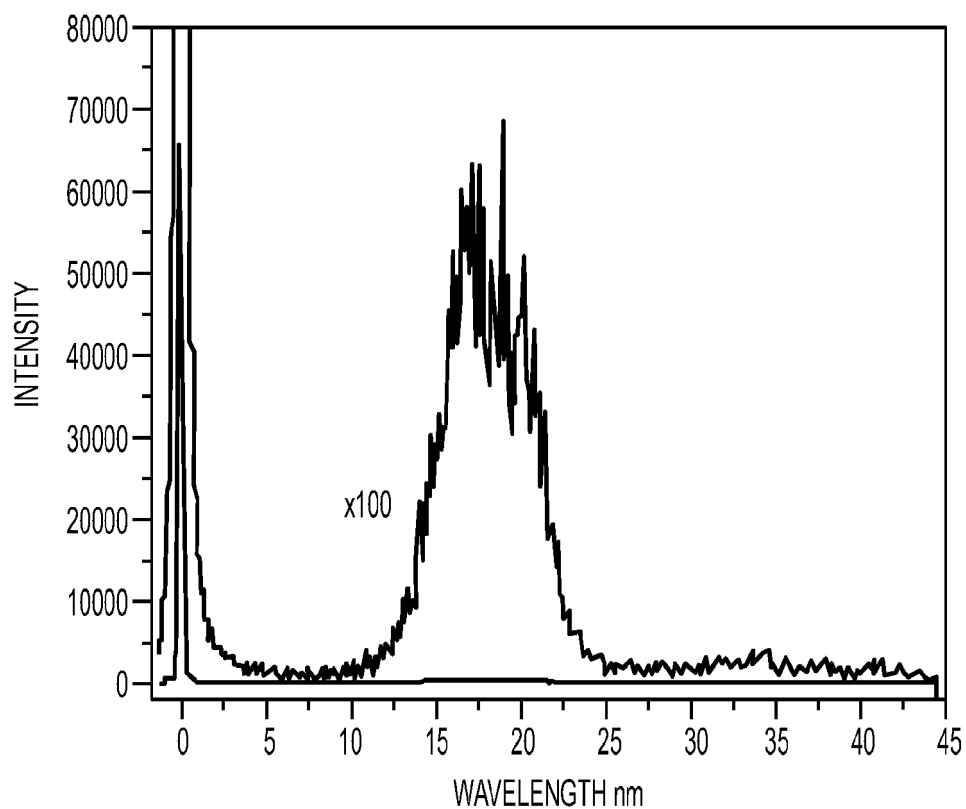
**FIG. 23****FIG. 24**

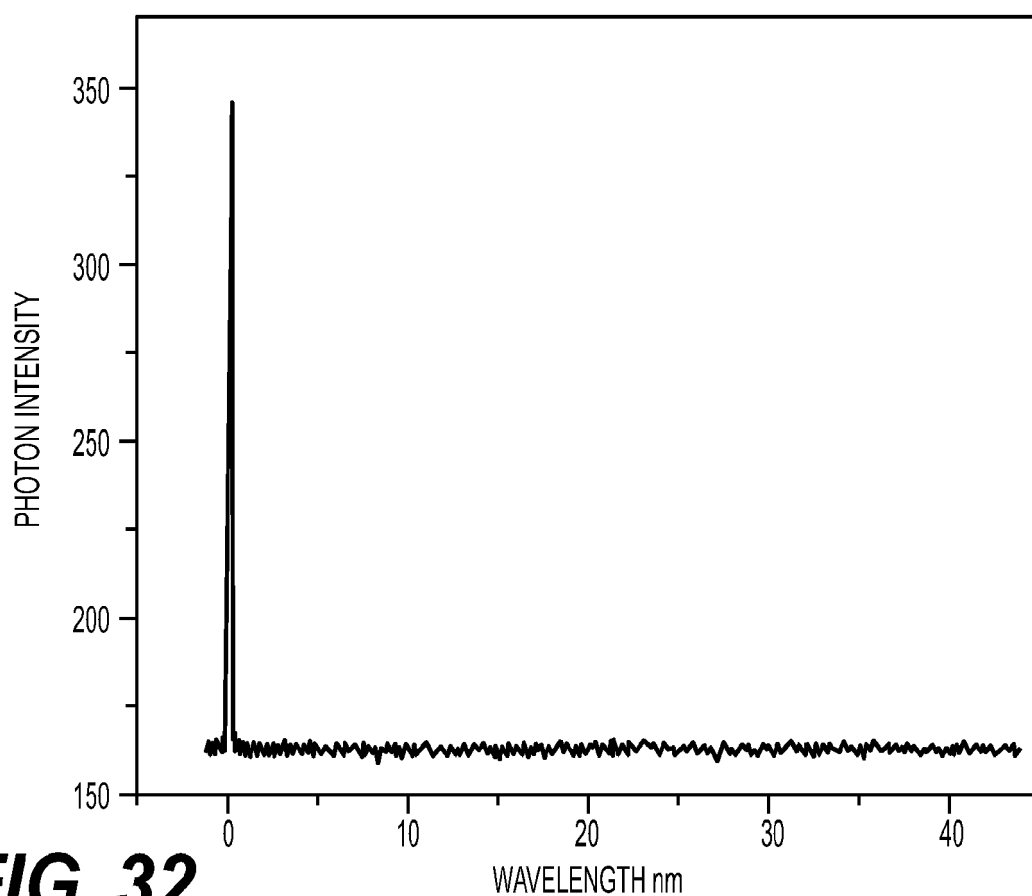
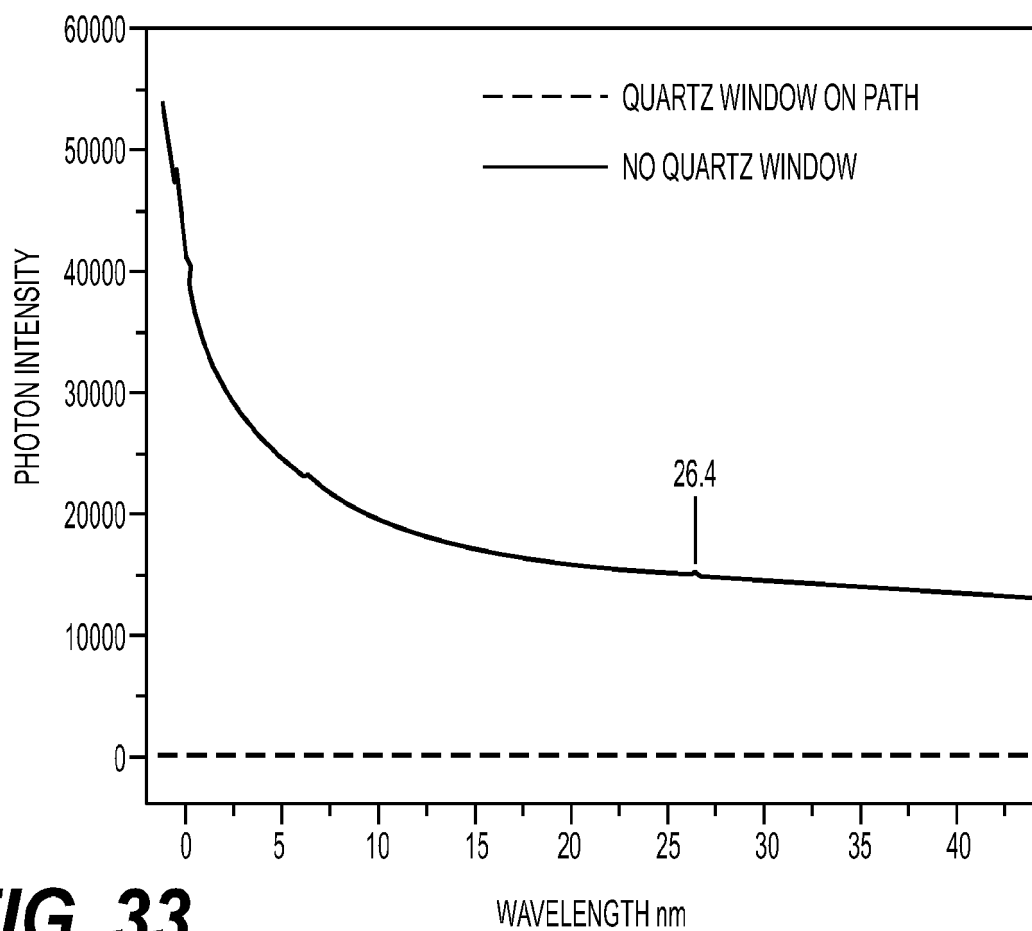
**FIG. 25**

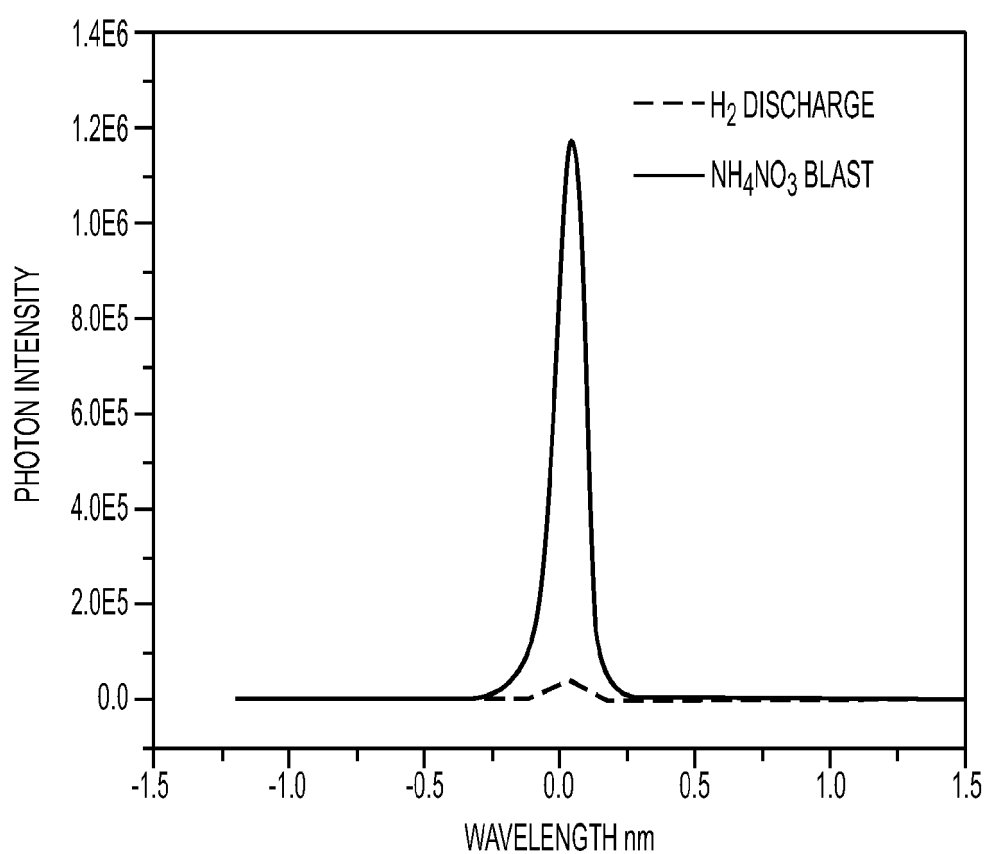
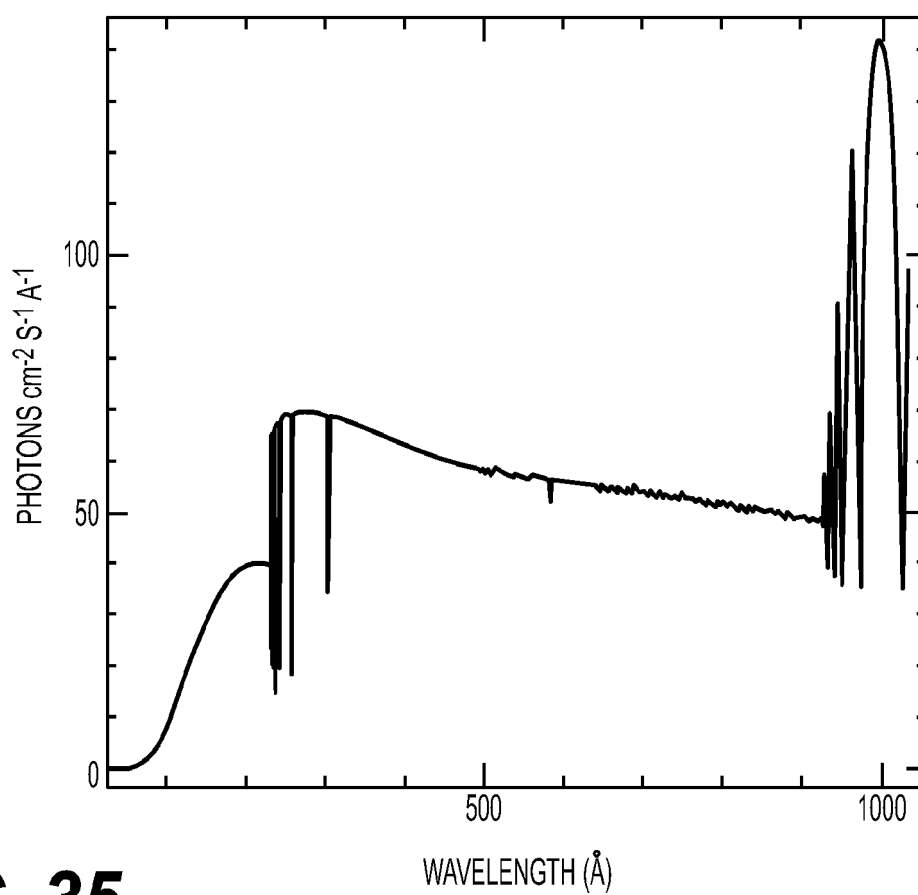
**FIG. 26A****FIG. 26B**

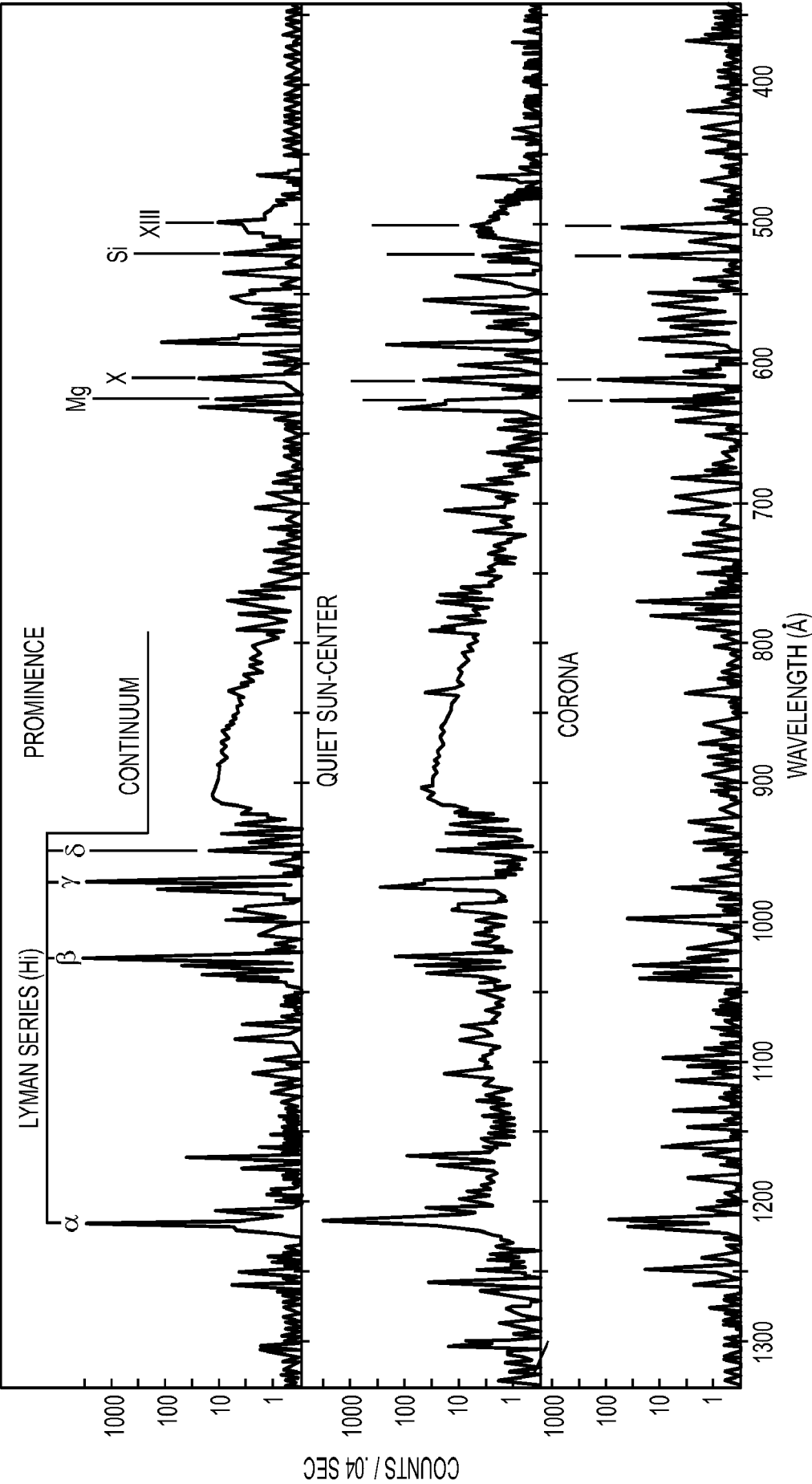
**FIG. 27**

**FIG. 28****FIG. 29**

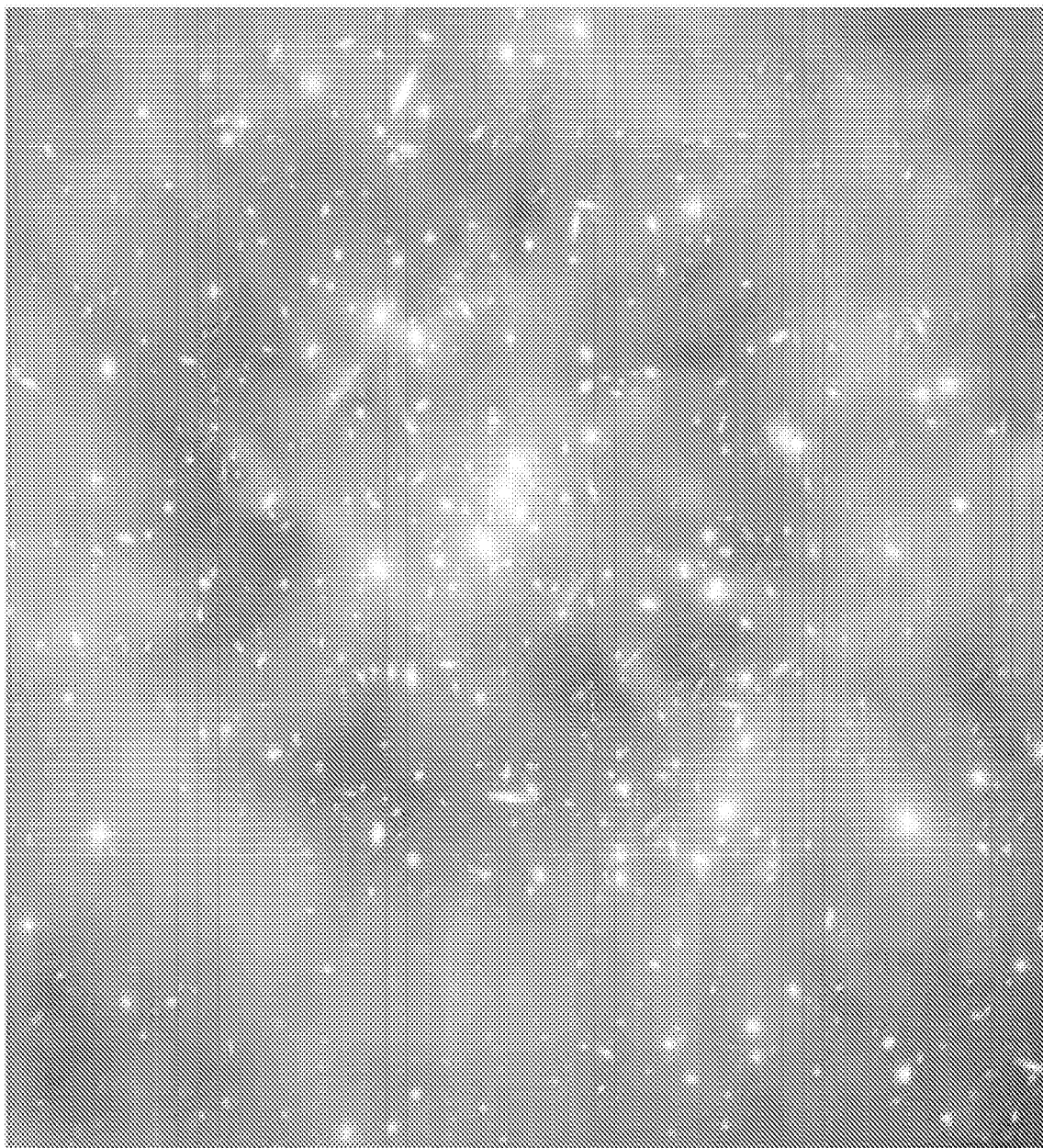
**FIG. 30****FIG. 31**

**FIG. 32****FIG. 33**

**FIG. 34****FIG. 35**



**FIG. 36**



***FIG. 37***