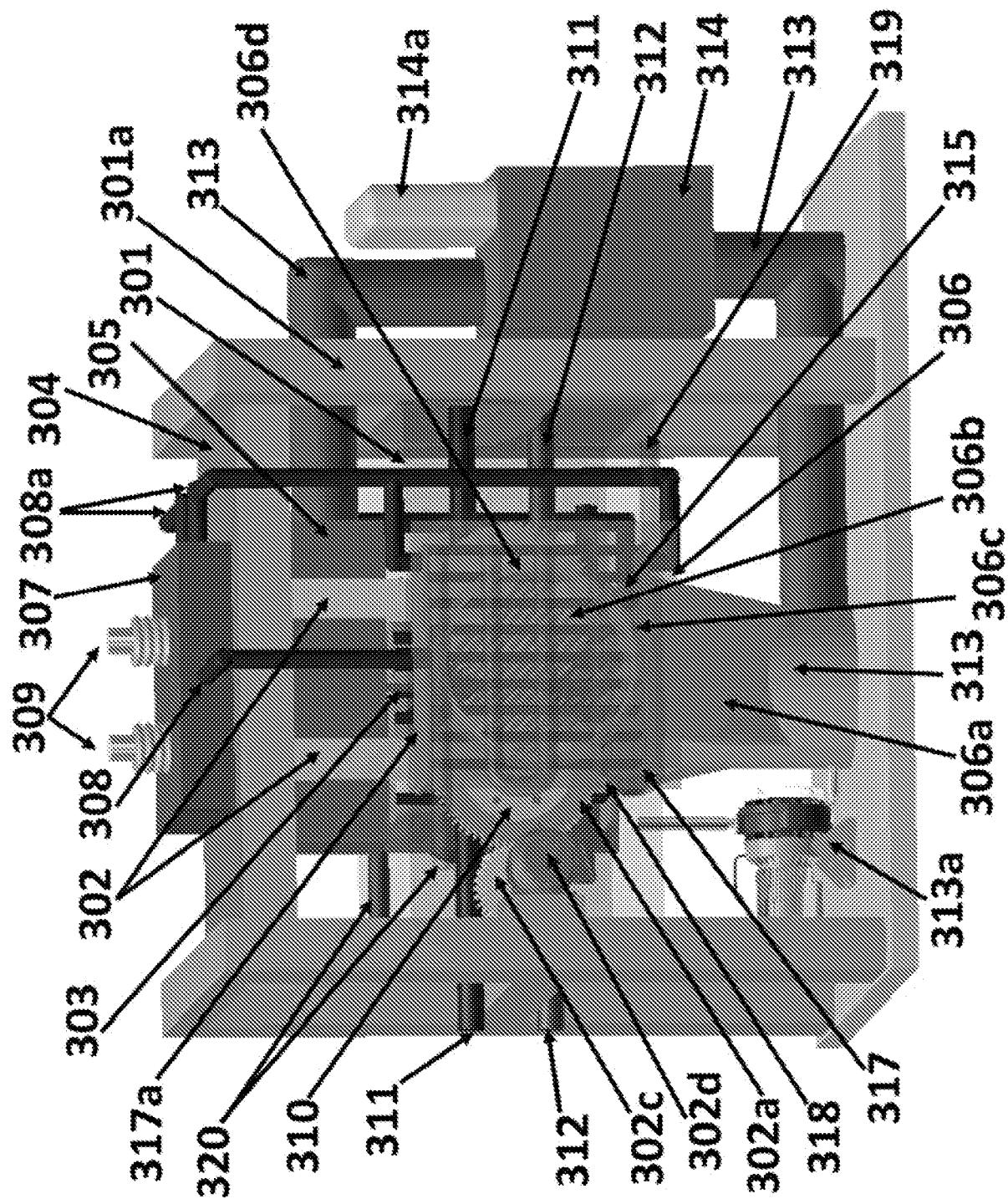


Fig. 1



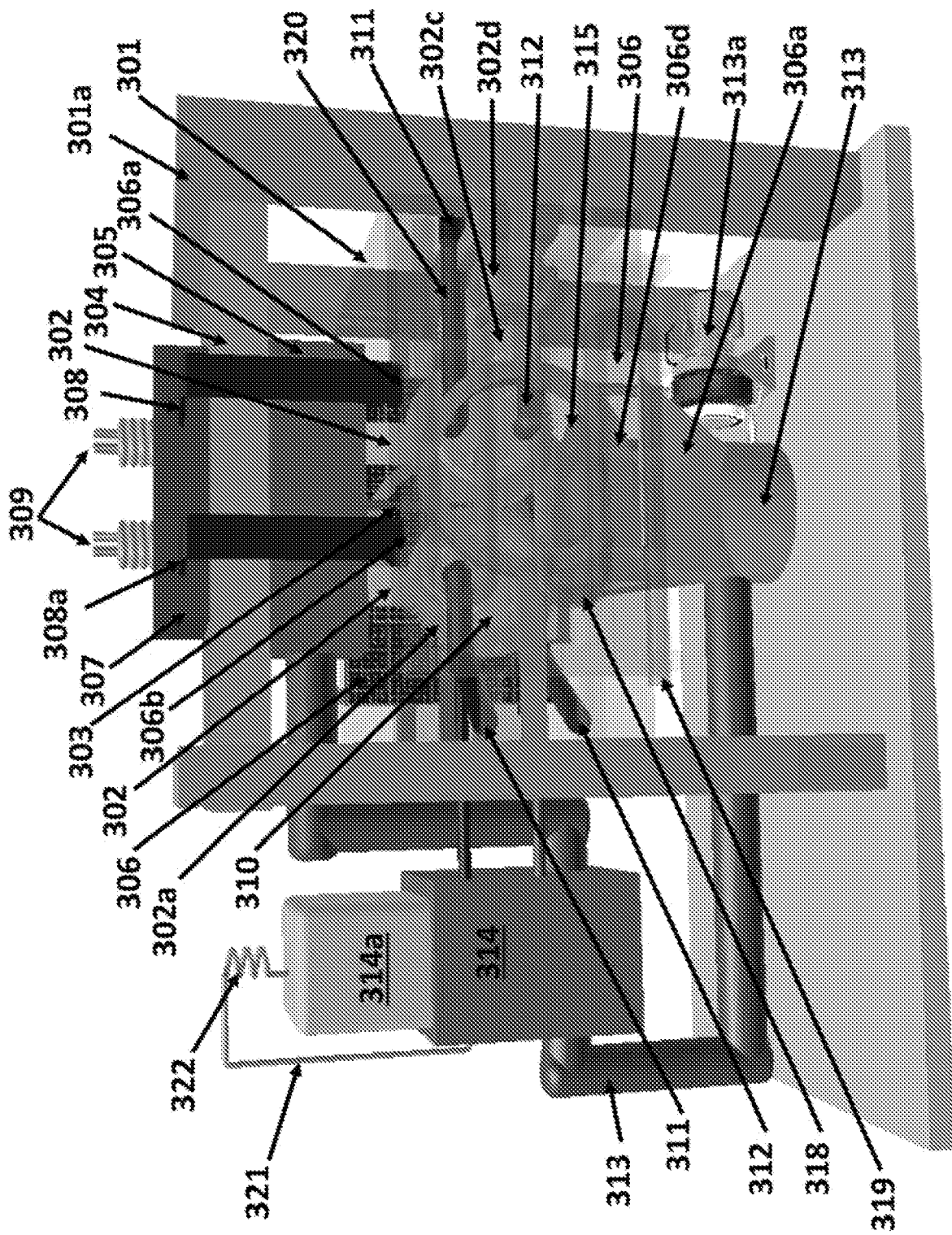


Fig. 2A

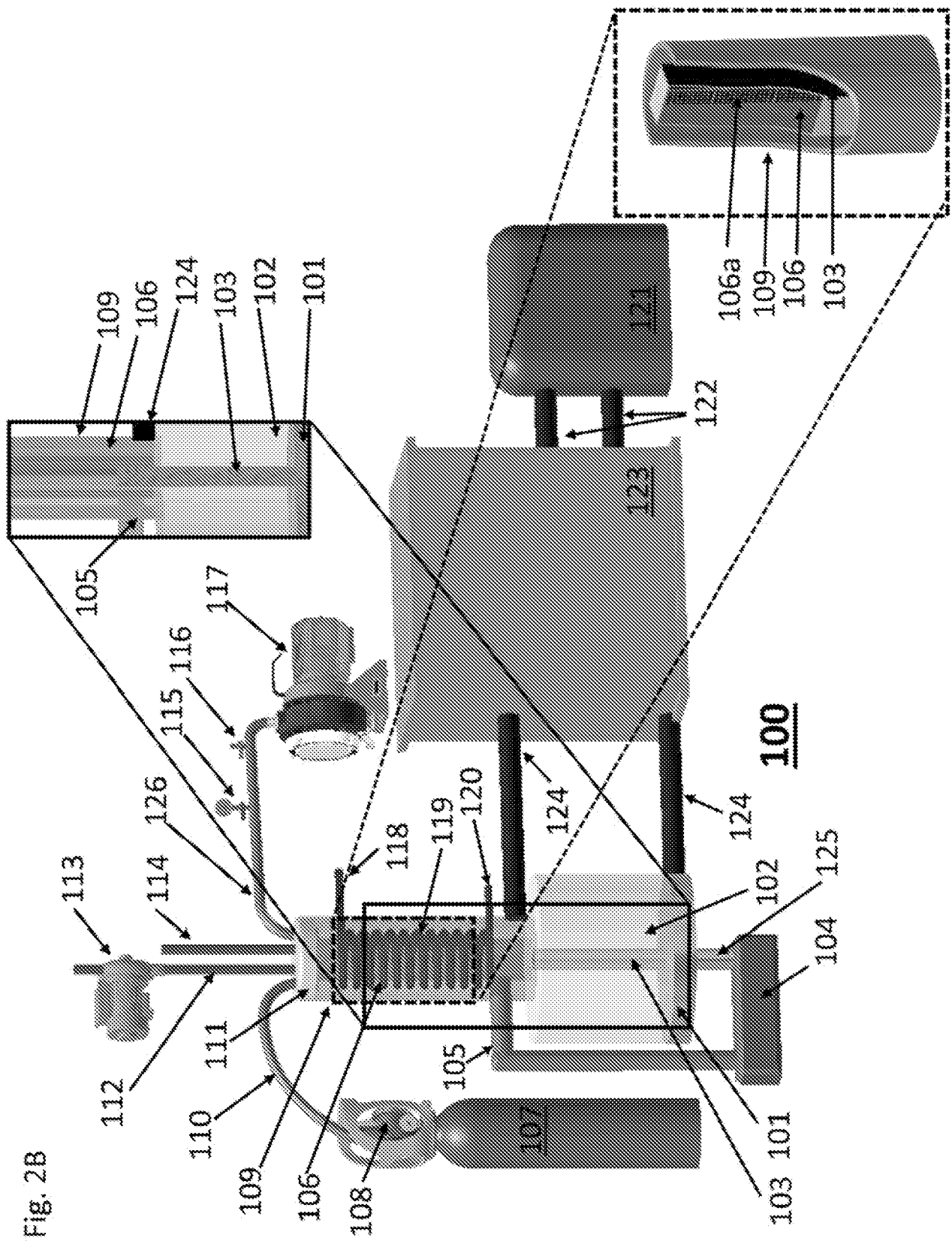


Fig. 2C

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

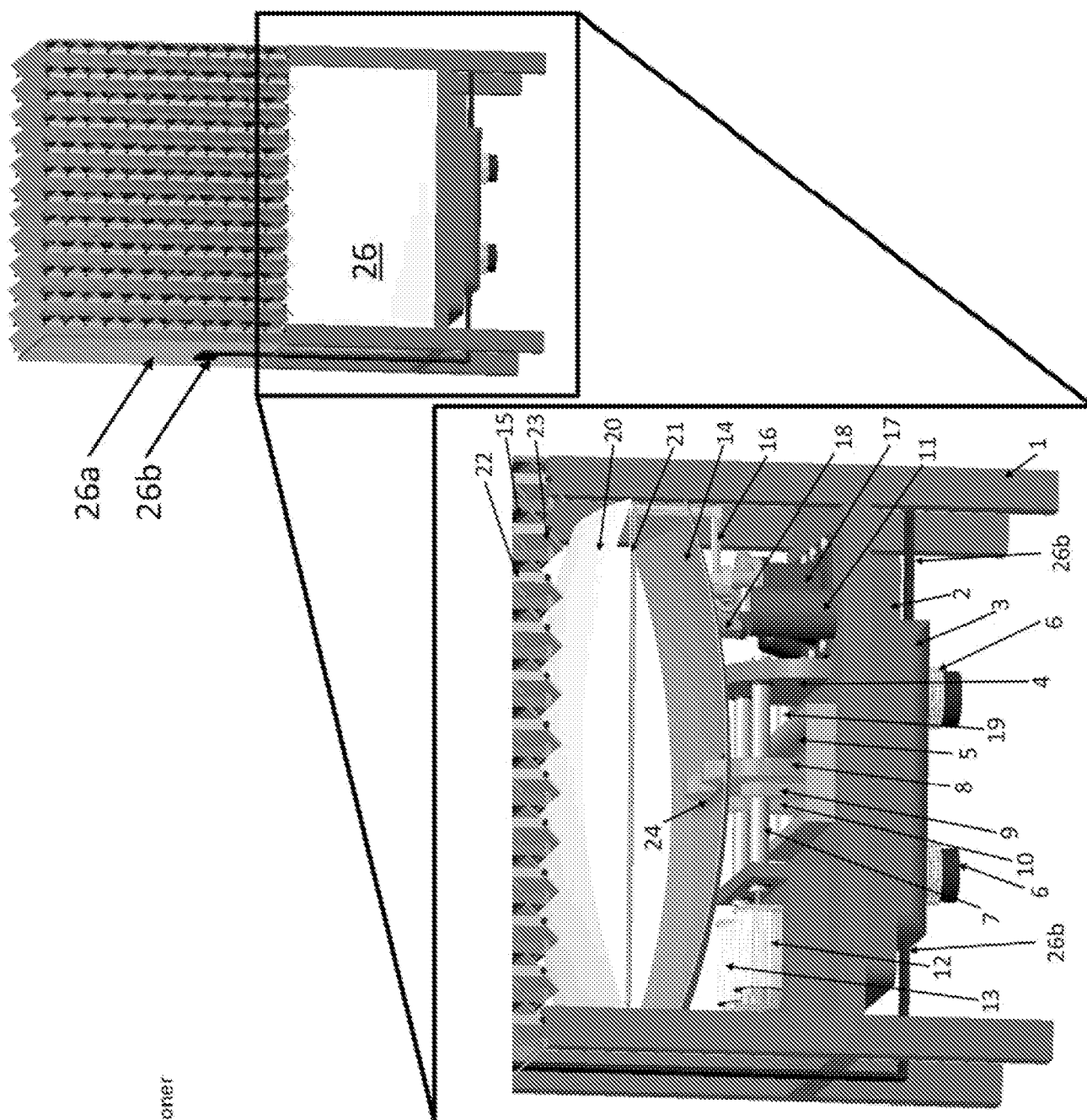


Fig. 2C1

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

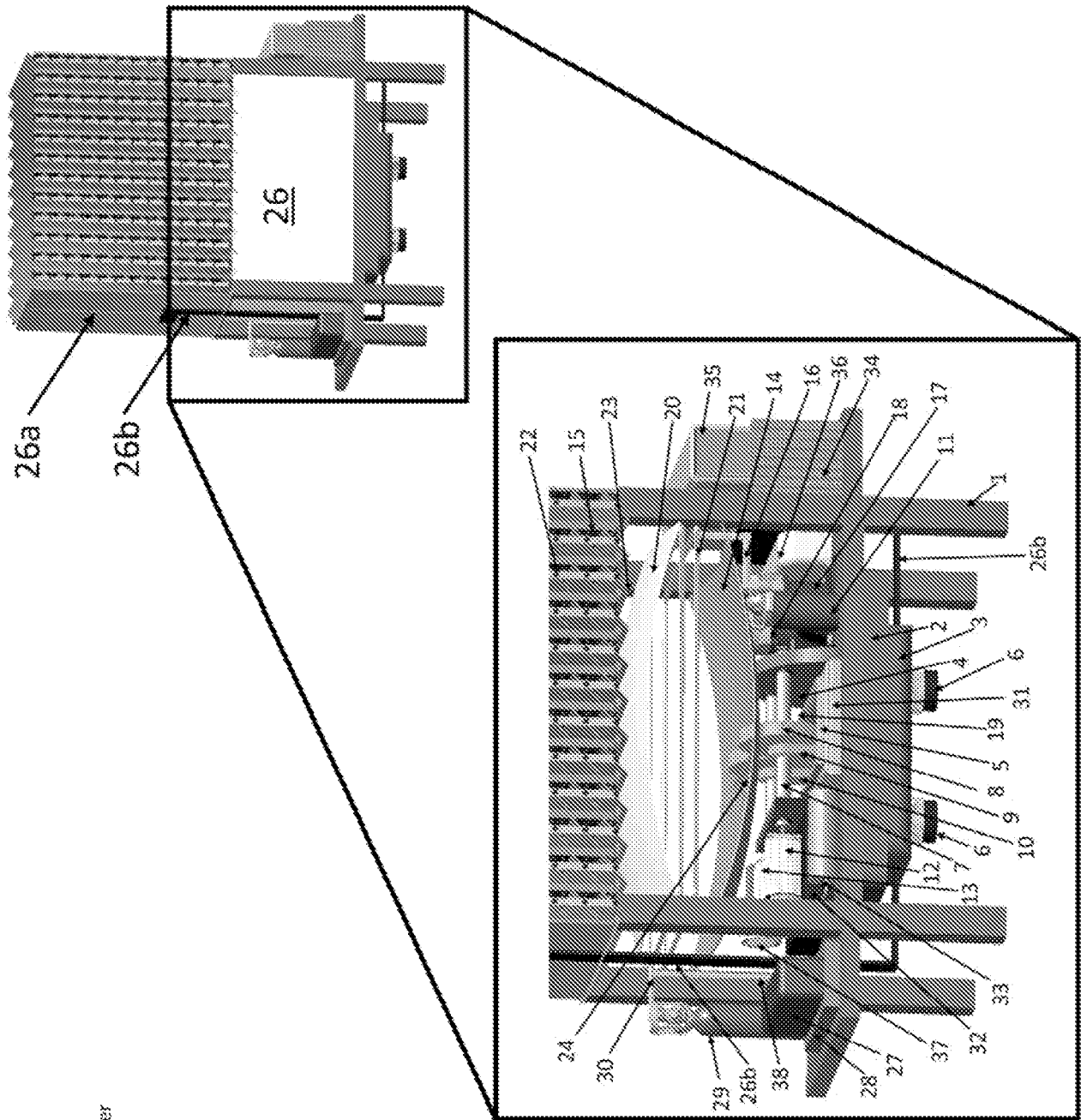


Fig. 2C2

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

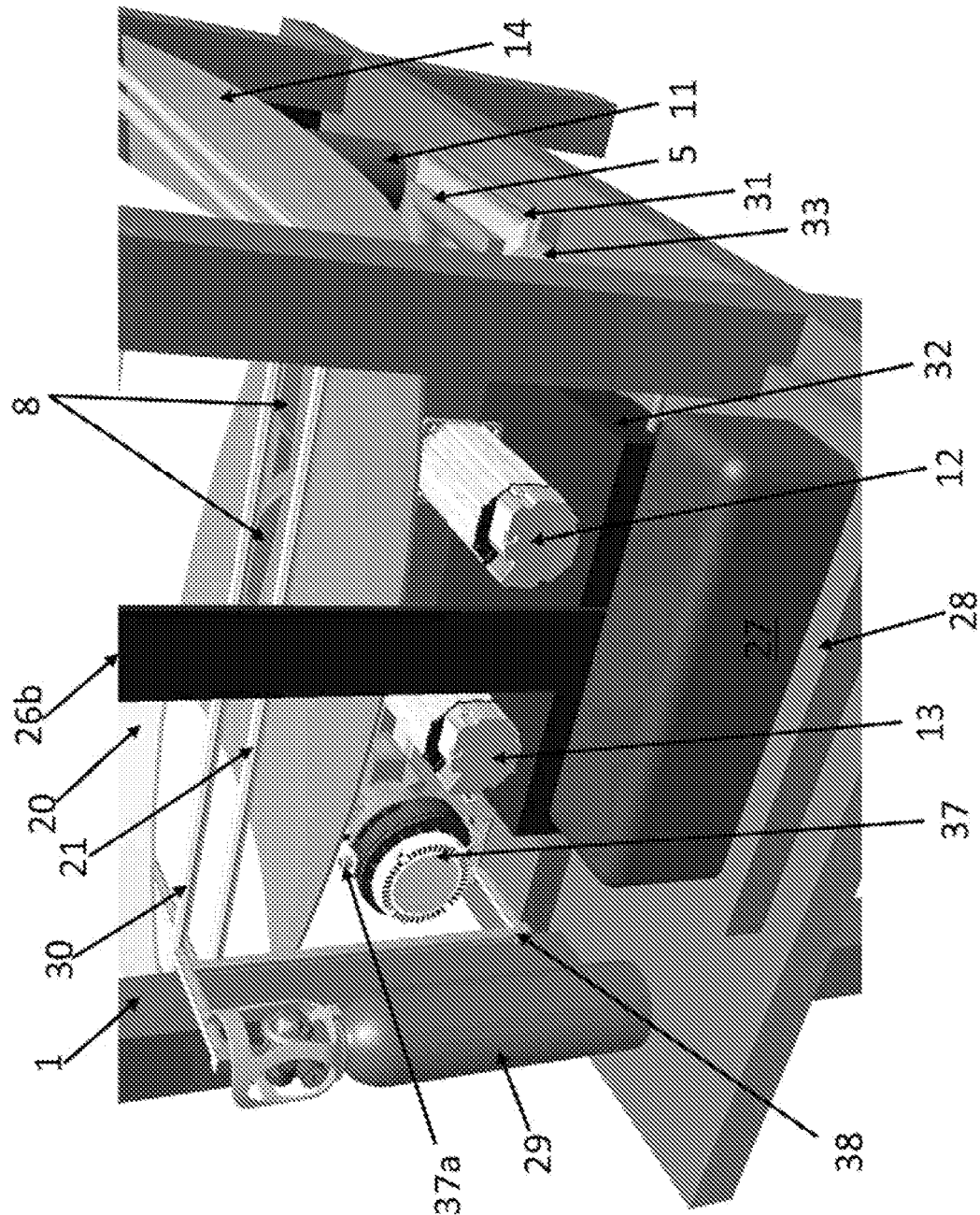


Fig. 2C3

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

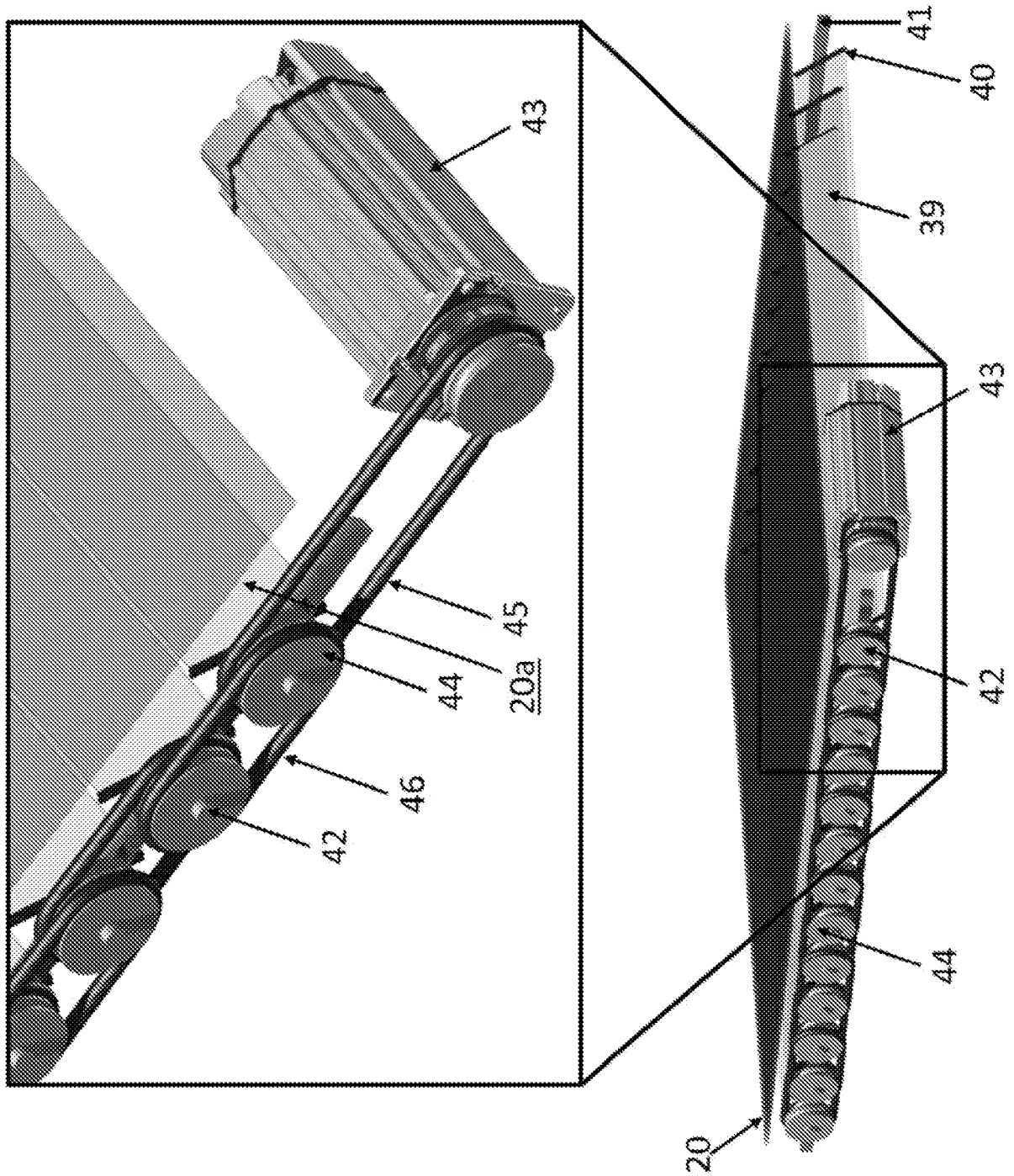


Fig. 2D

- 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

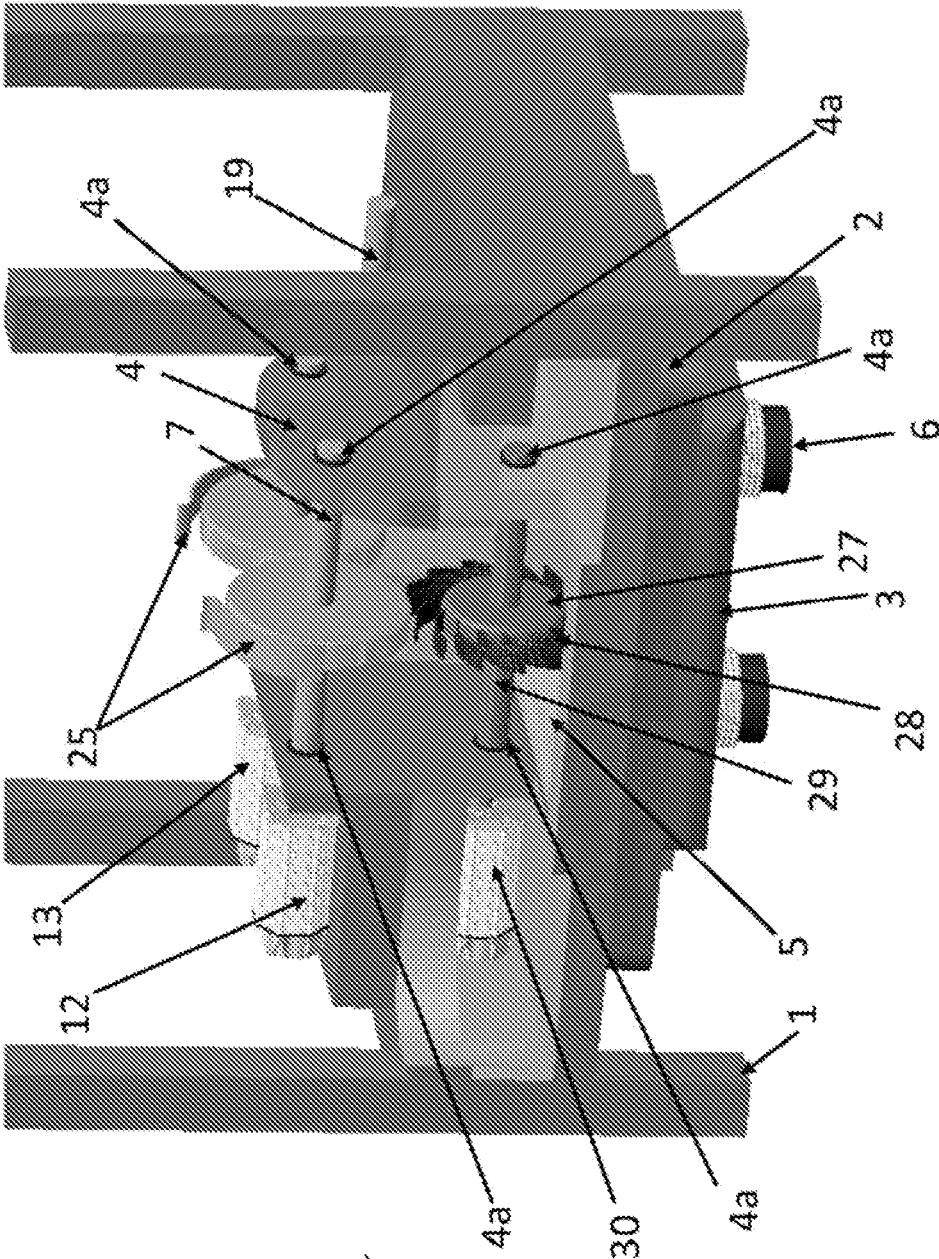


Fig. 2E

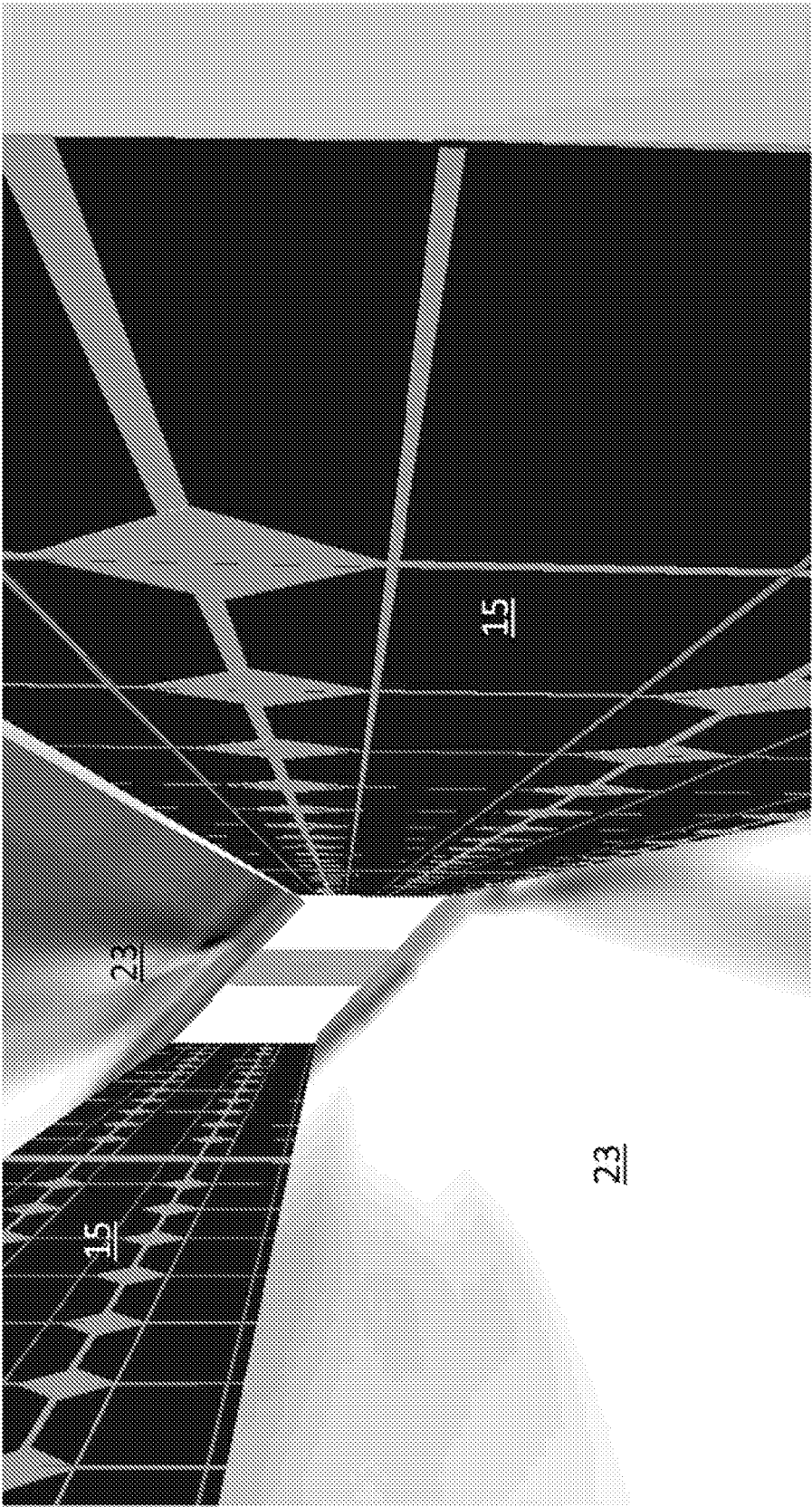


Fig. 2F

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

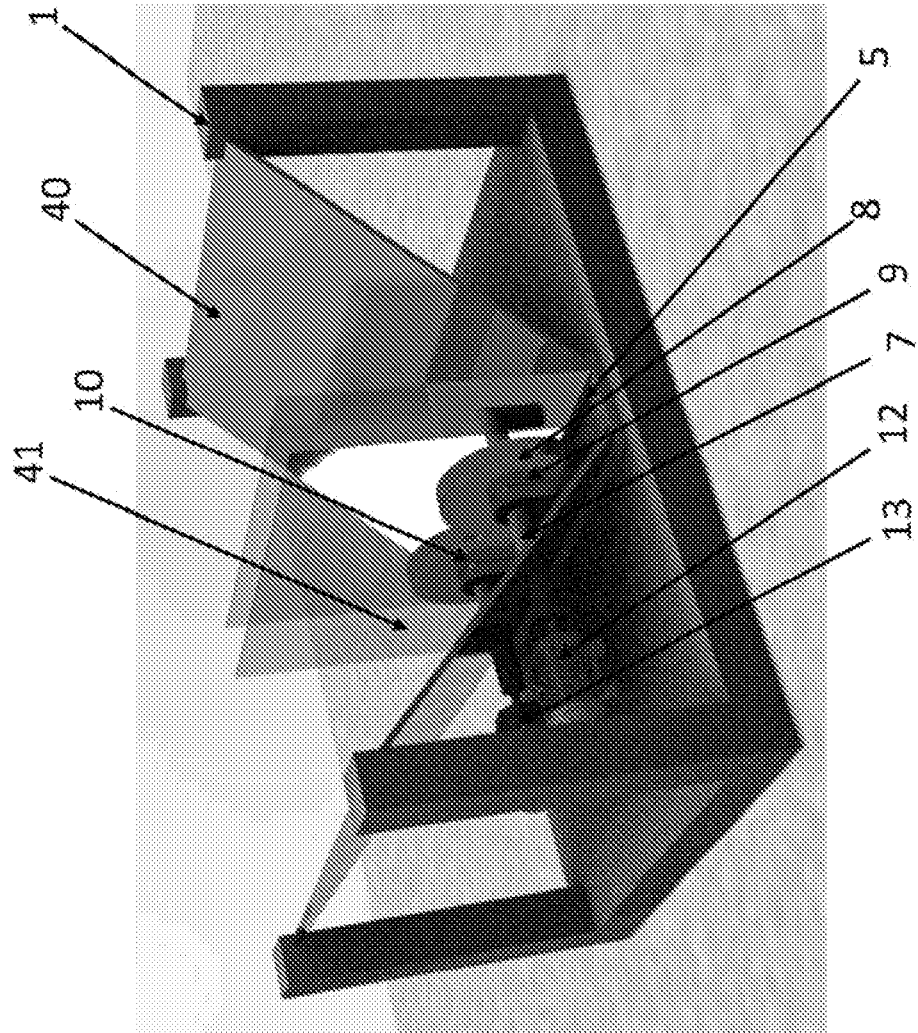
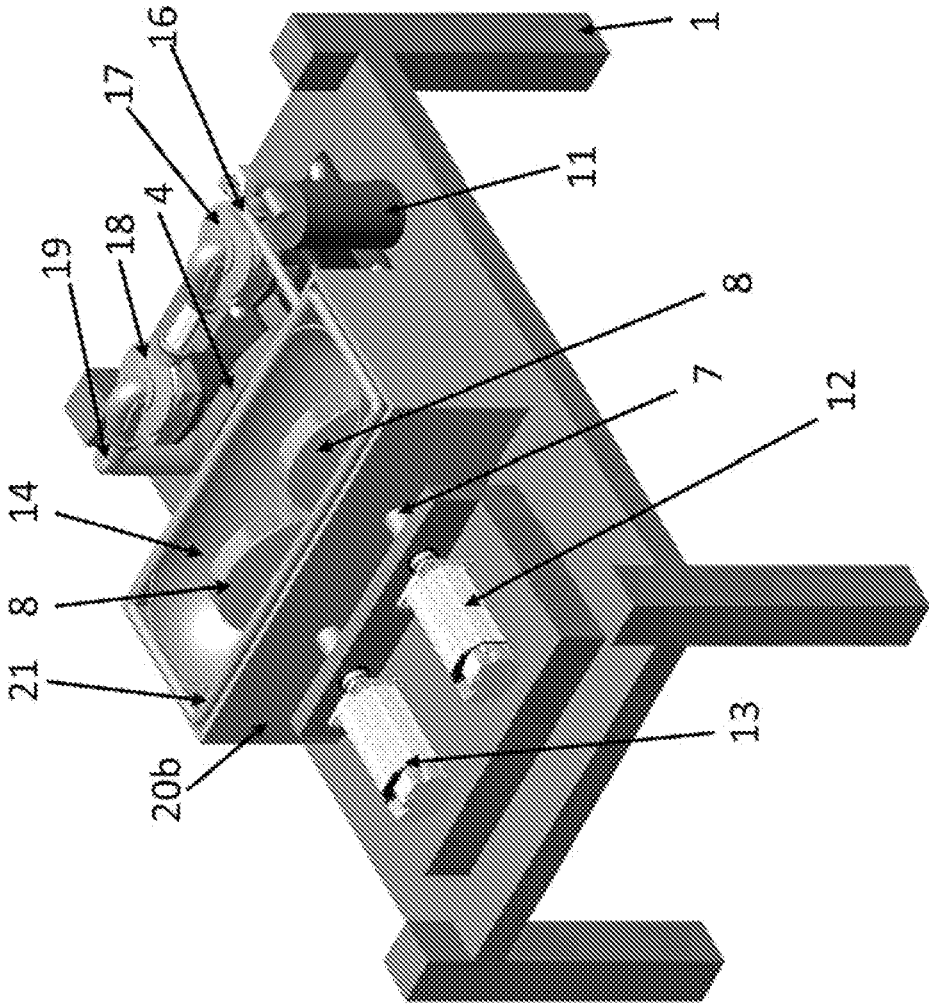


Fig. 2G

- 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
- 16. Jet Water Line
- 17. Water Ejection Pump
- 18. Water Sucking Line
- 19. Water Sucking Line
- 20b. Electrode Housing
- 21. Rinsing Line with Jets



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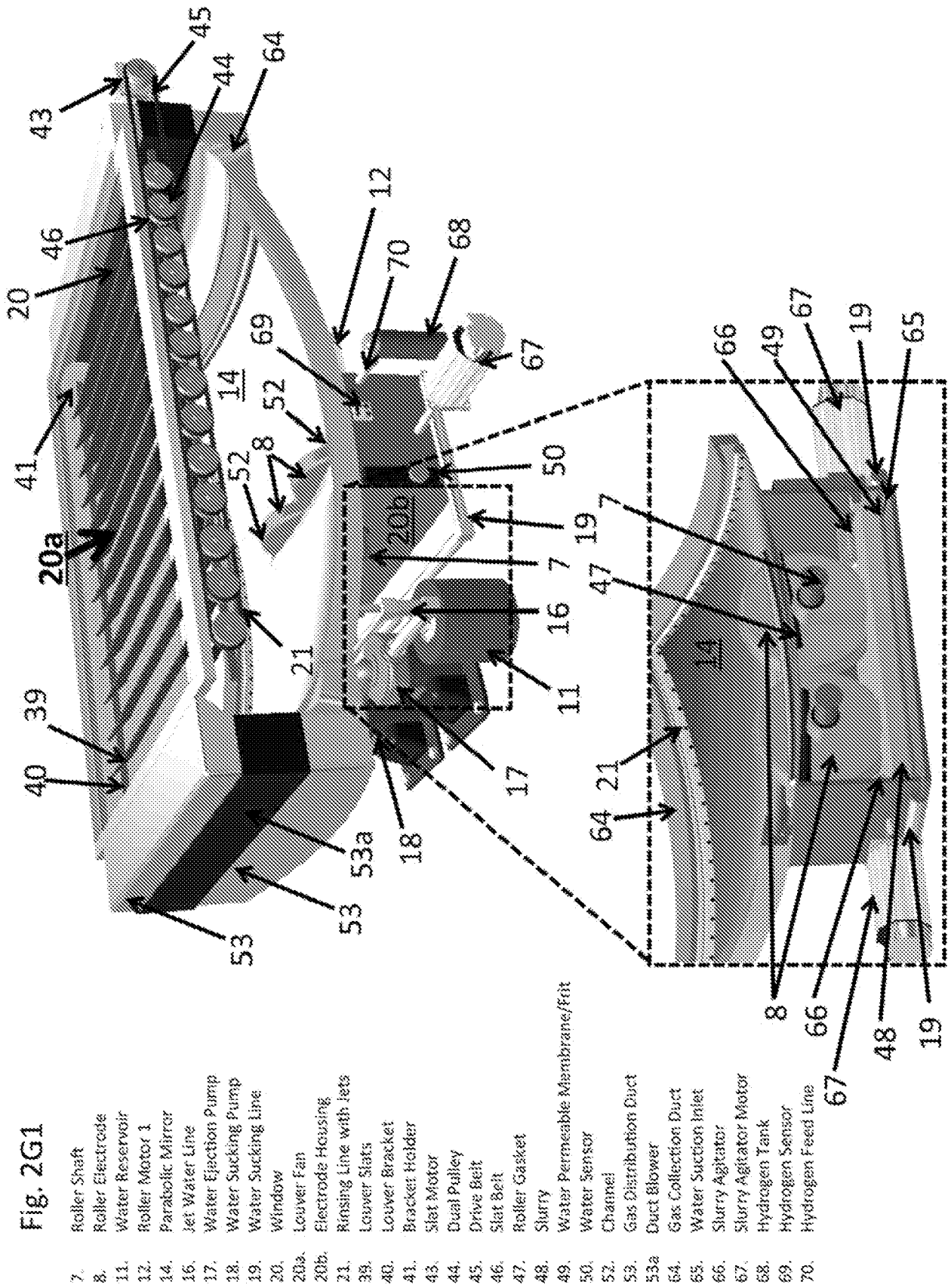
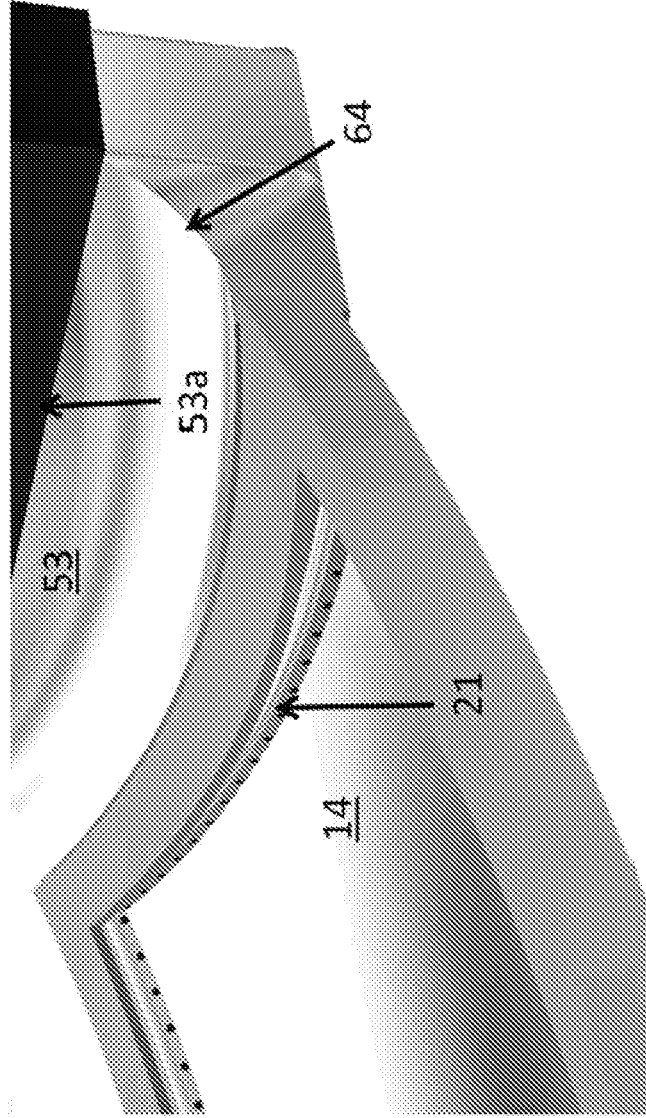


Fig. 2G1a

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



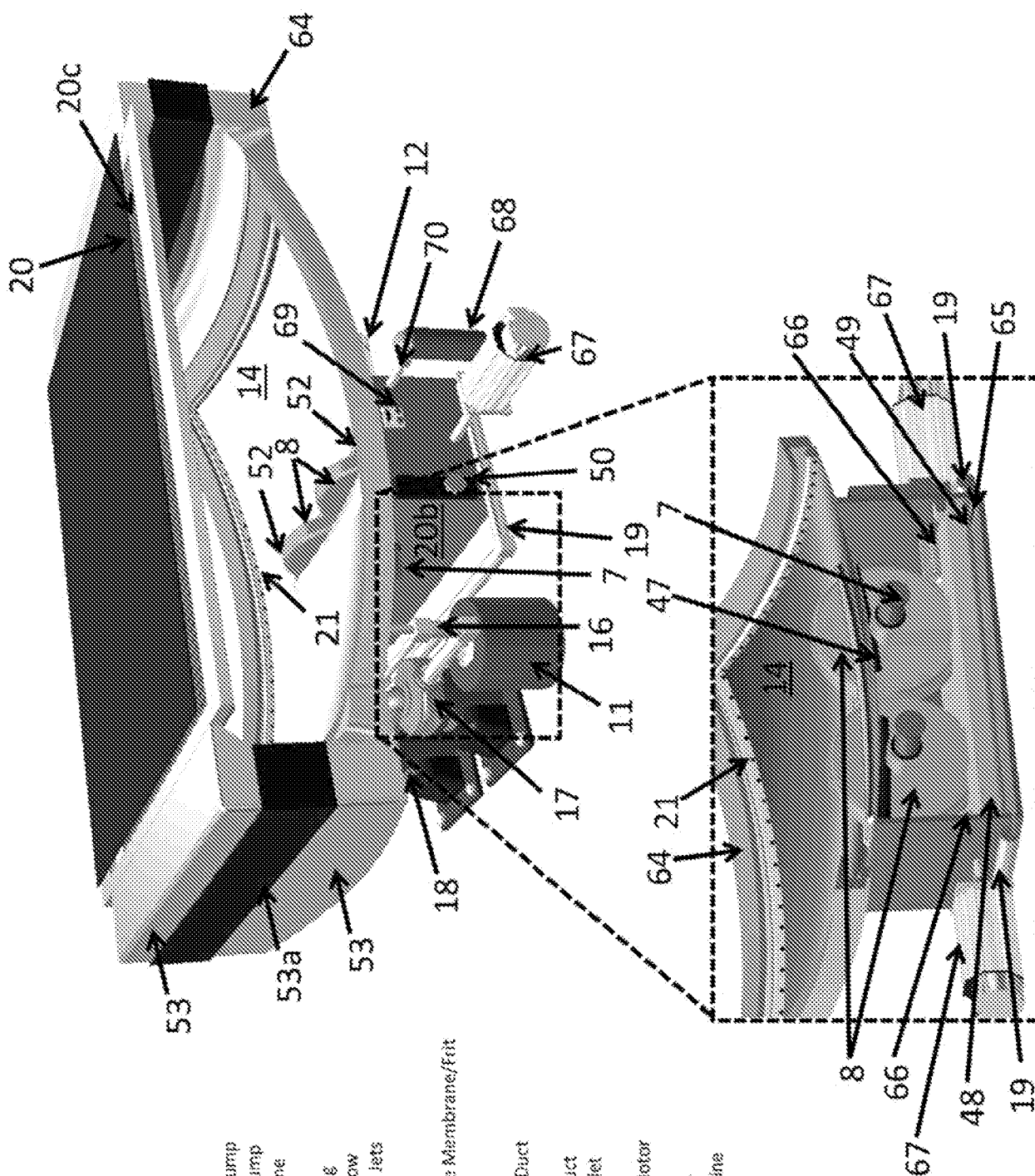


Fig. 2G1b

- 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 Suction 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/Frit
- 50. Water Sensor
- 52. Channel
- 53. Gas Distribution Duct
- 53a. Duct Blower
- 64. Gas Collection Duct
- 65. Water Suction Inlet
- 66. Slurry Agitator Motor
- 67. Slurry Agitator
- 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

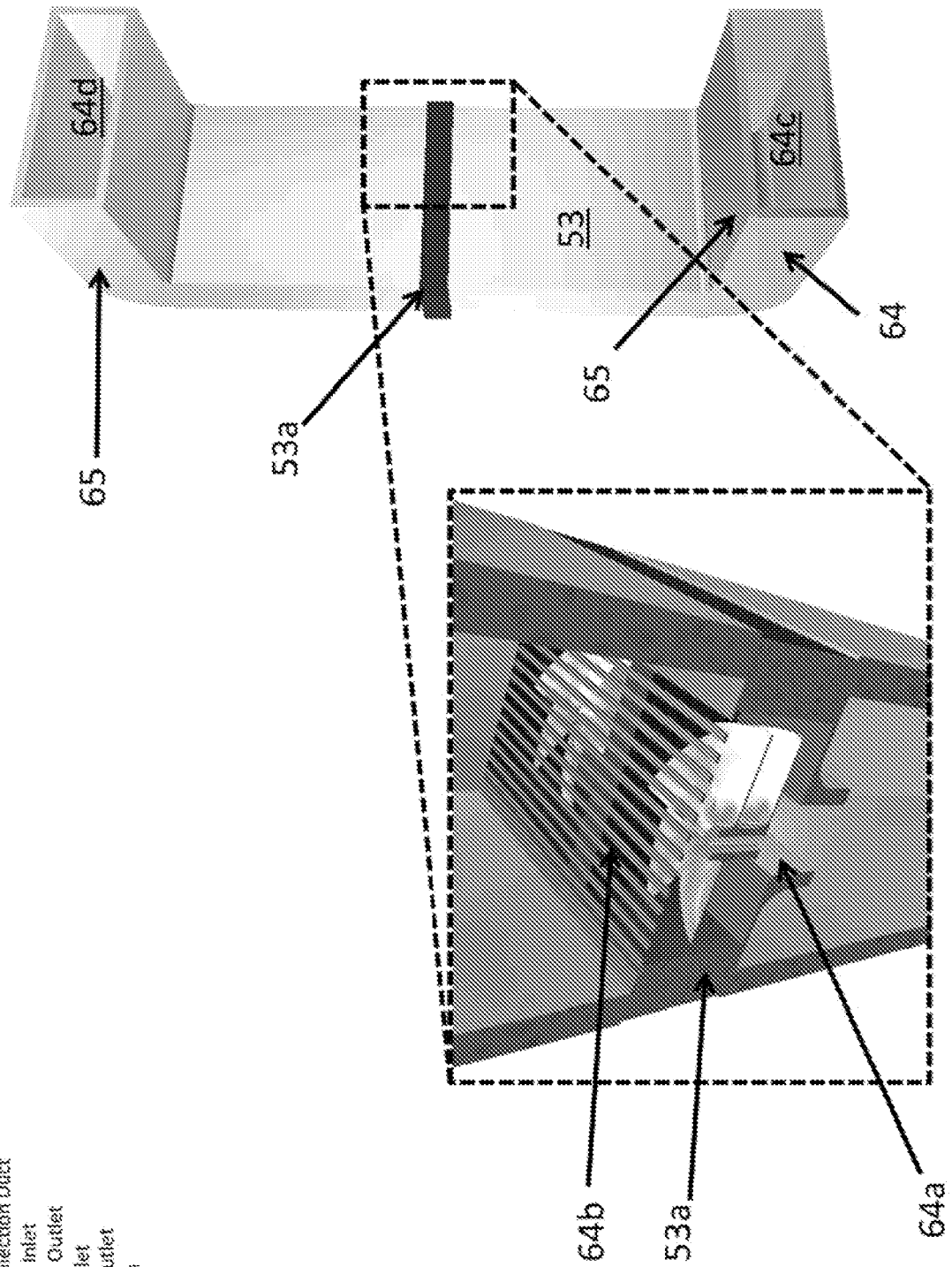


Fig. 2G1d

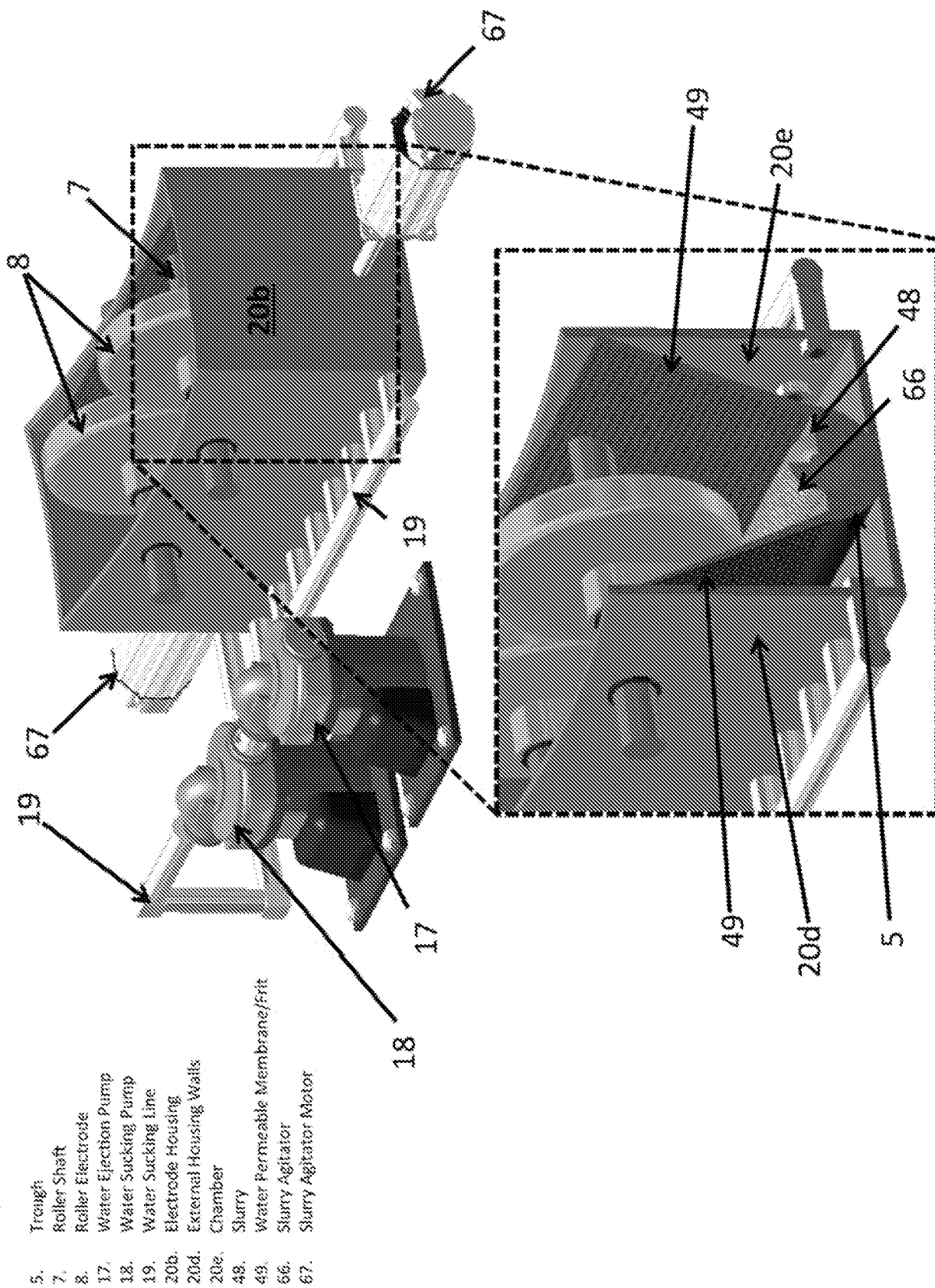
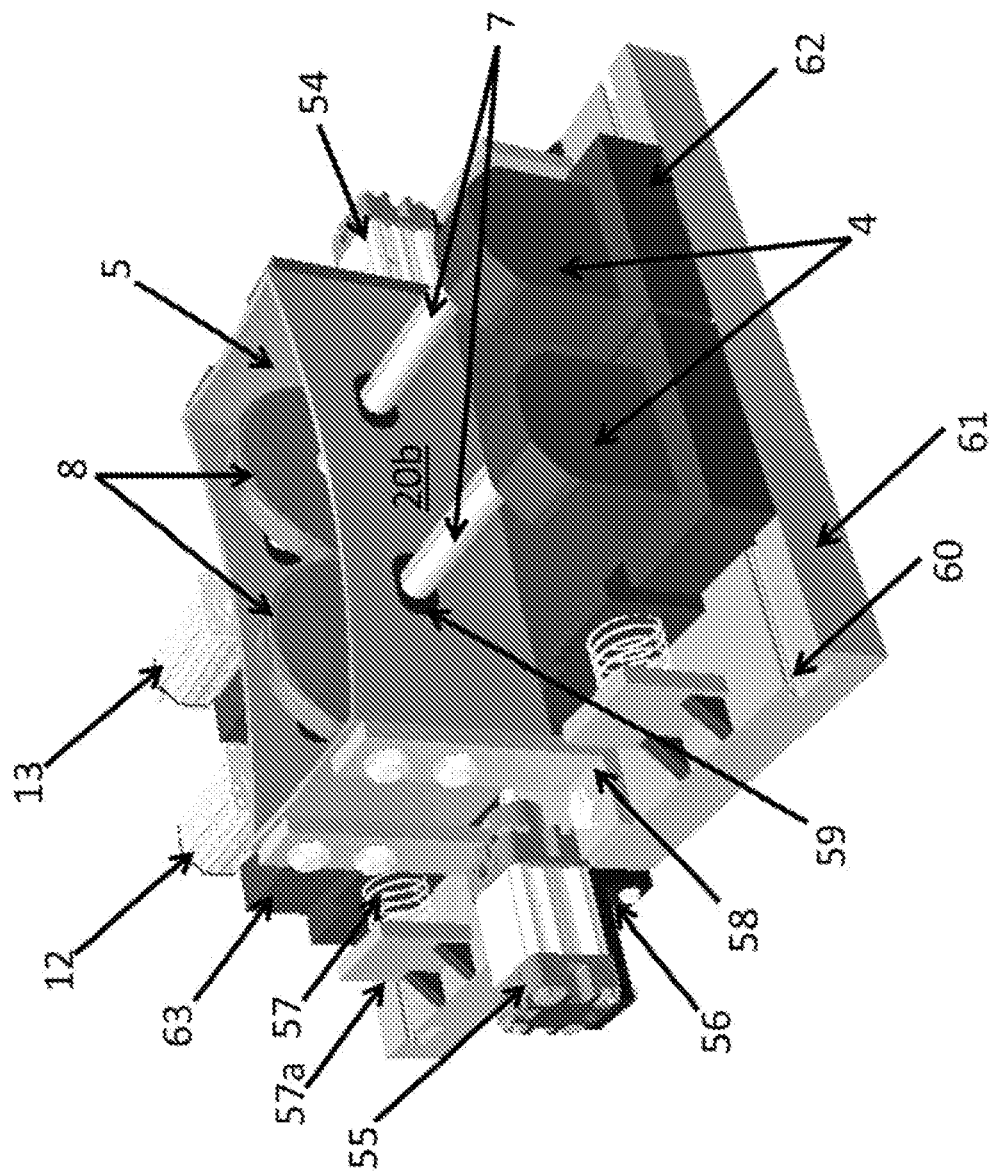




Fig. 2G1e

- 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



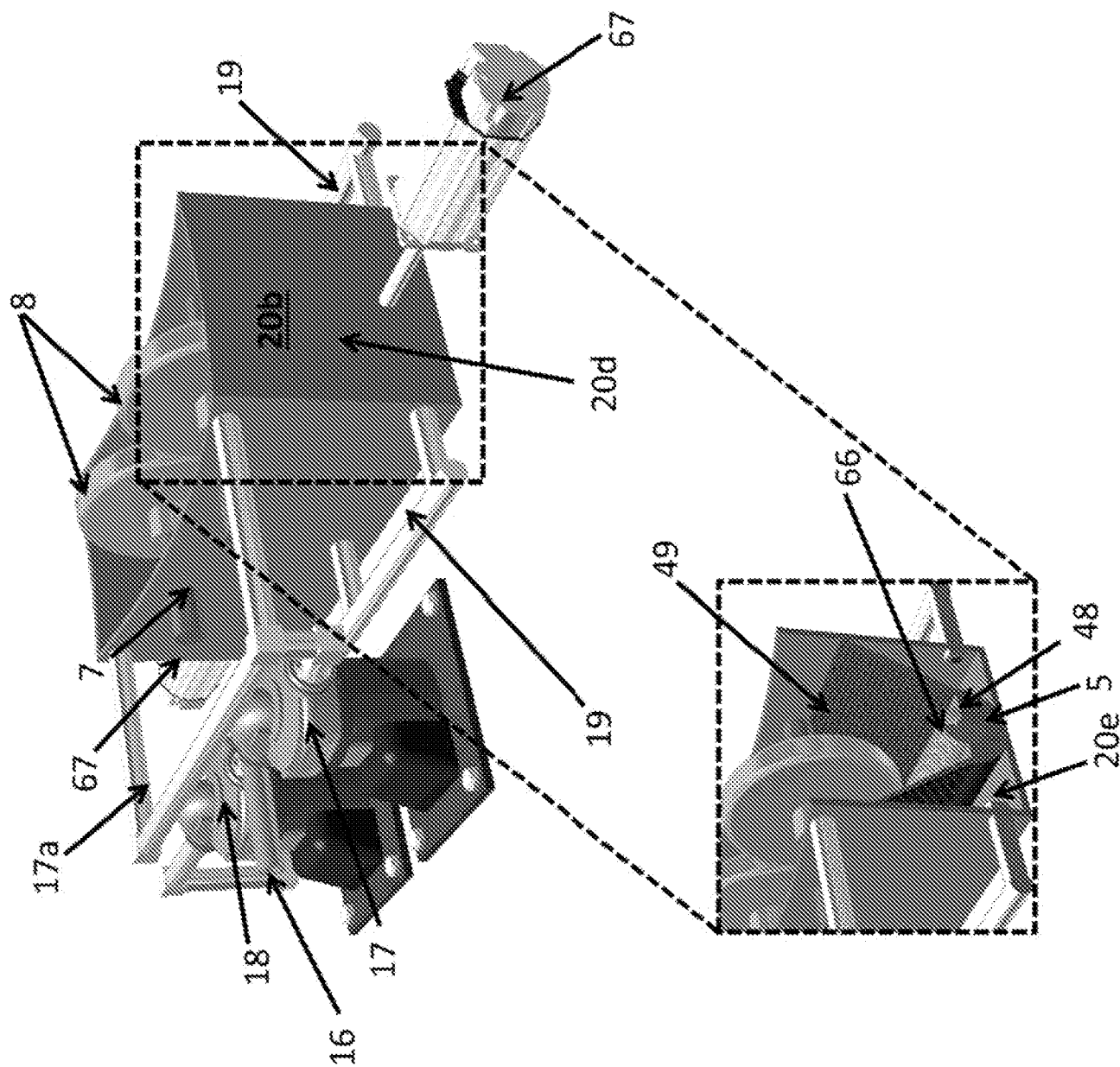


Fig. 2G1e1

- 5. Trough
- 7. Roller Shaft
- 8. Roller Electrode
- 16. Jet Gas Line
- 17. Recirculation Blower
- 17a. Gas Suction Line
- 18. Gas Injection Line
- 19. Gas Recirculation 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

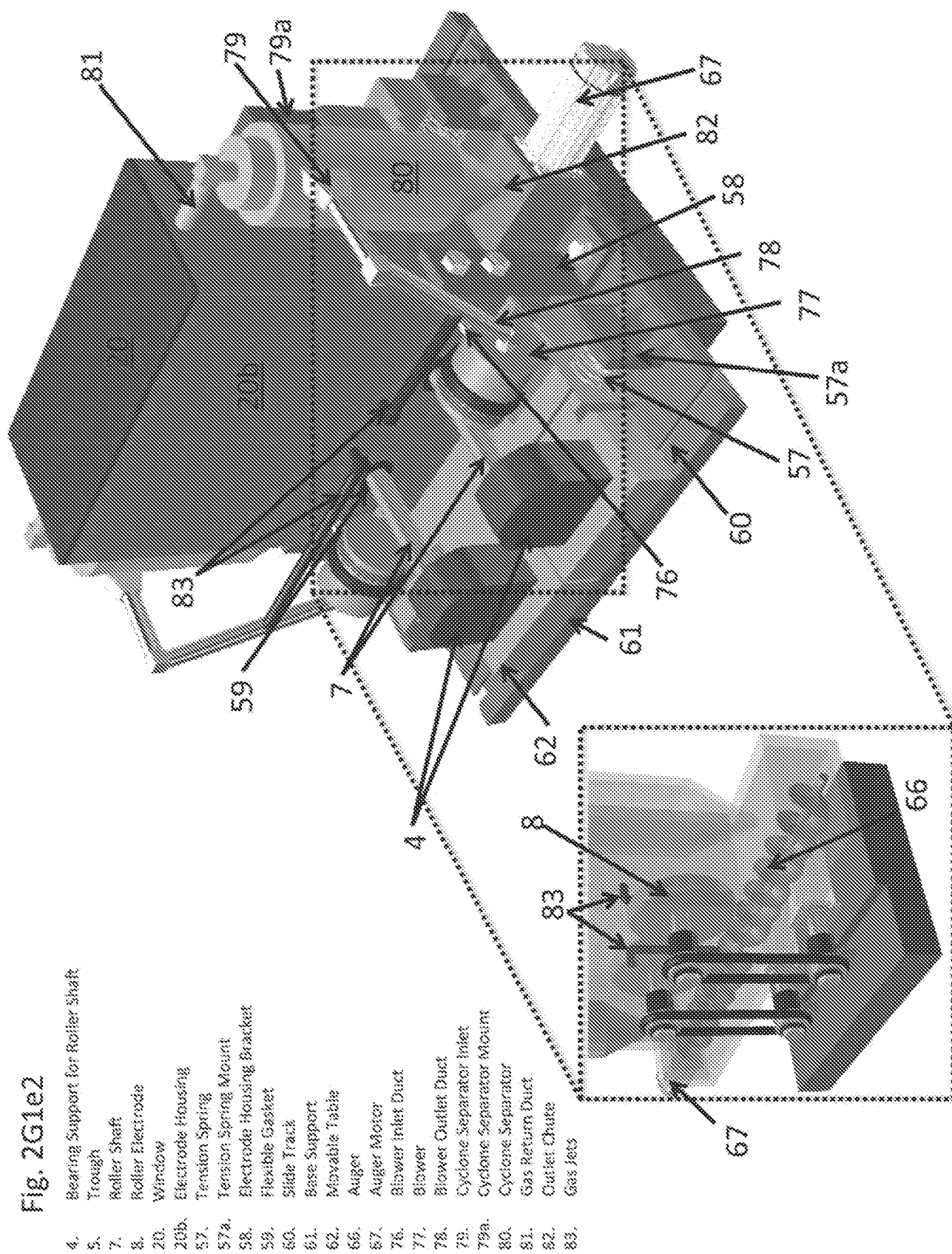


Fig. 2G1e3

- 4. Bearing Support for Roller Shaft
- 5. Trough
- 7. Roller Shaft
- 8. Roller Electrode
- 12. Roller Motor 1
- 13. Roller Motor 2
- 20. Window
- 20a. Electrode Housing
- 20b. Tension Spring
- 57. Tension Spring Mount
- 57a. Electrode Housing Bracket
- 58. Flexible Gasket
- 59. Slide Track
- 60. Base Support
- 61. Movable Table
- 62. Auger Motor
- 67. Indirect Drive Pulley
- 71. Shaft Drive Belt
- 72. Drive Shaft Bearing
- 73. Drive Shaft
- 74. Wire Connector
- 75. Blower
- 77. Blower Outlet Duct
- 78. Cyclone Separator Inlet
- 79. Cyclone Separator Mount
- 79a. Cyclone Separator
- 80. Gas Return Duct
- 81. Outlet Chute
- 82. Gas Jets
- 83.

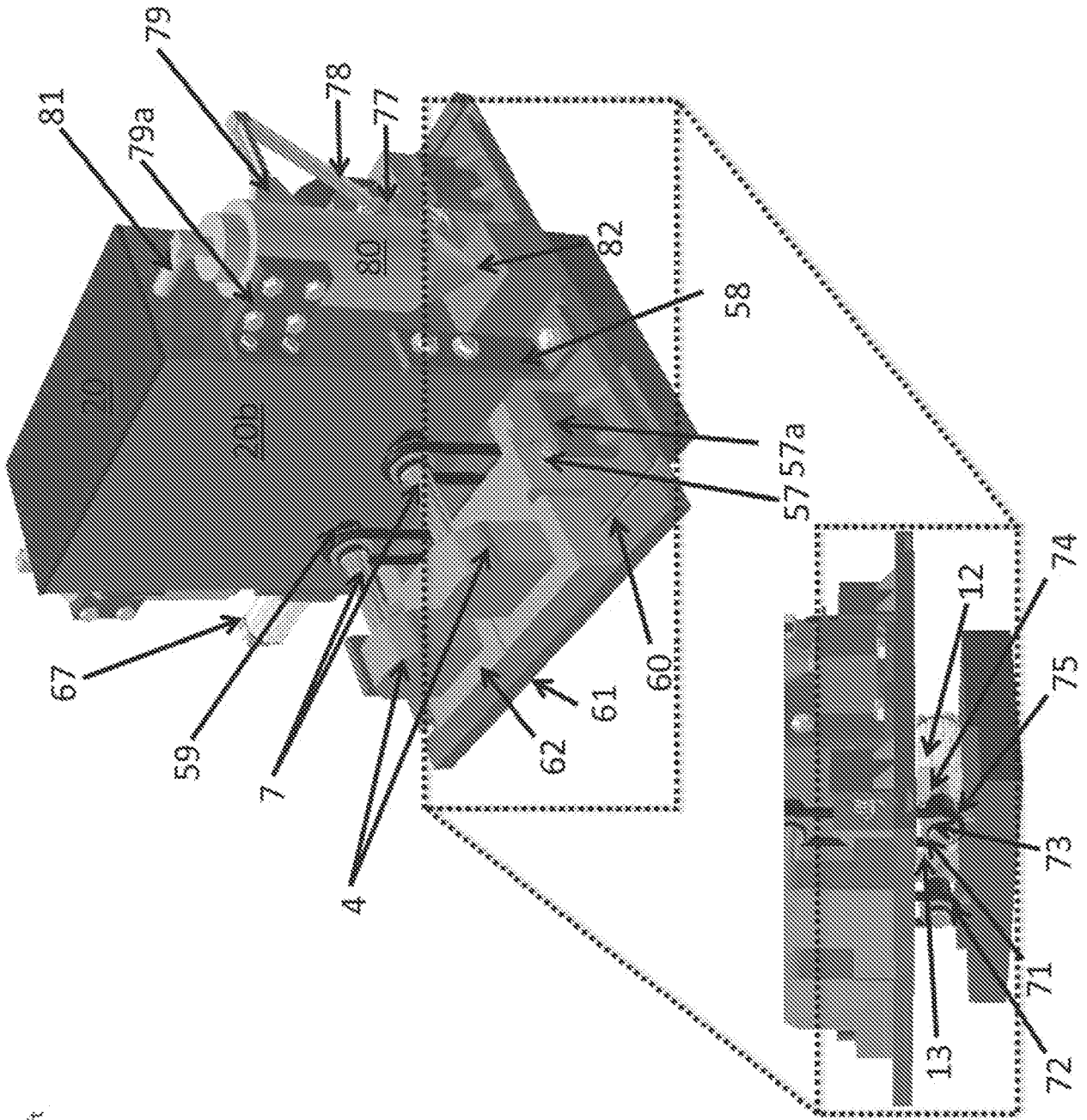


Fig. 2G1e4

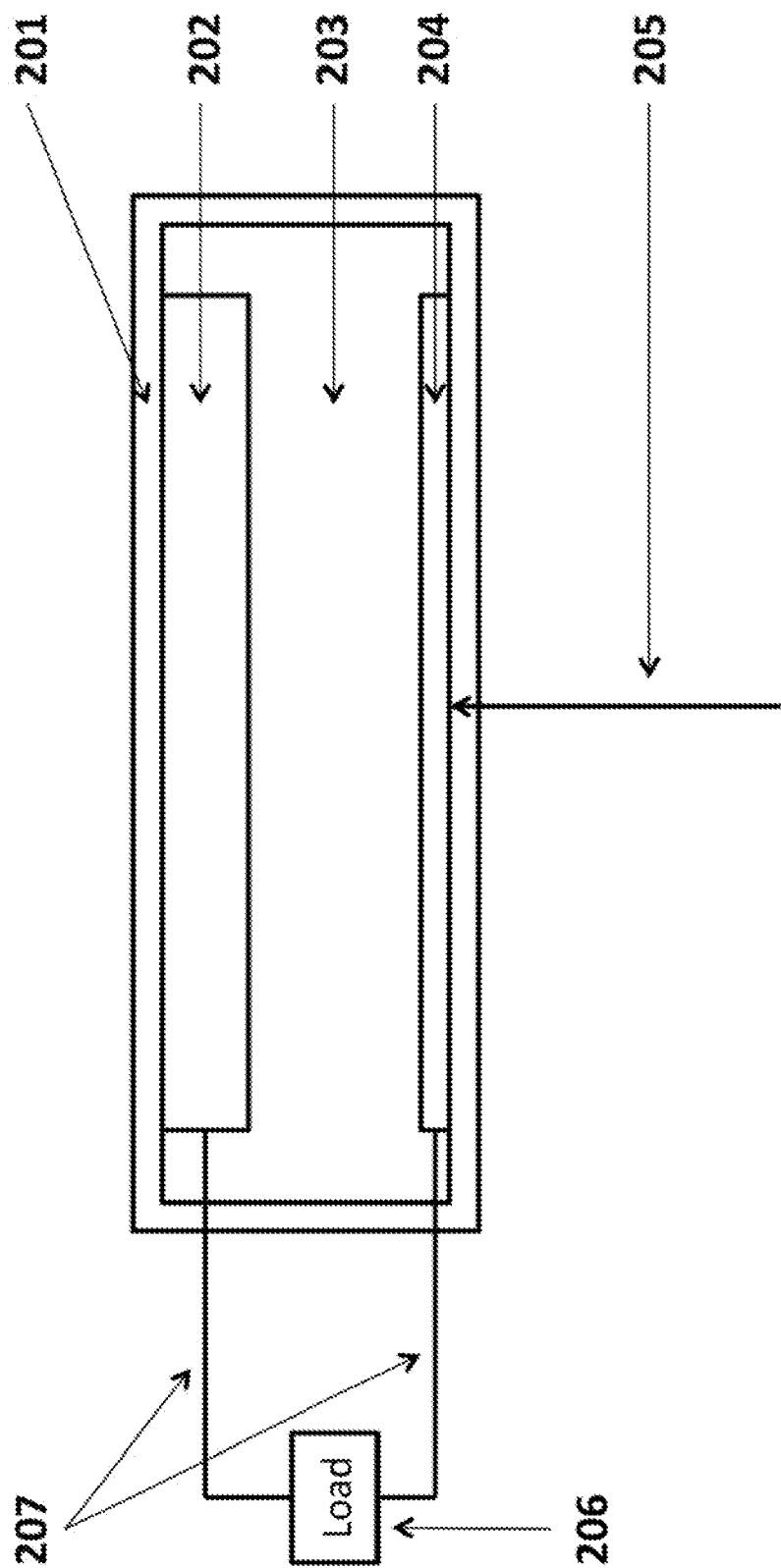


Fig. 2G1e5

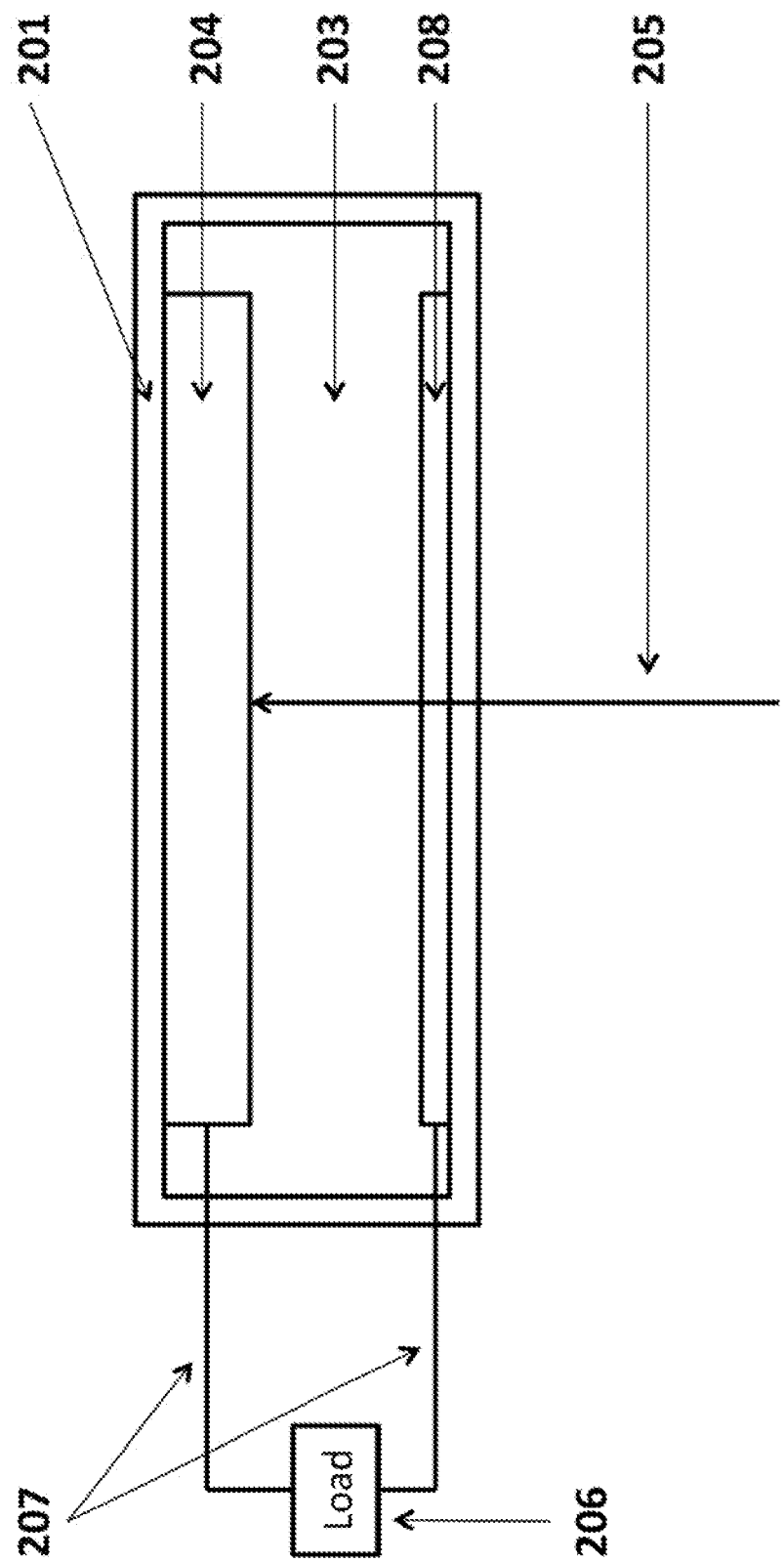


Fig. 2G1e6

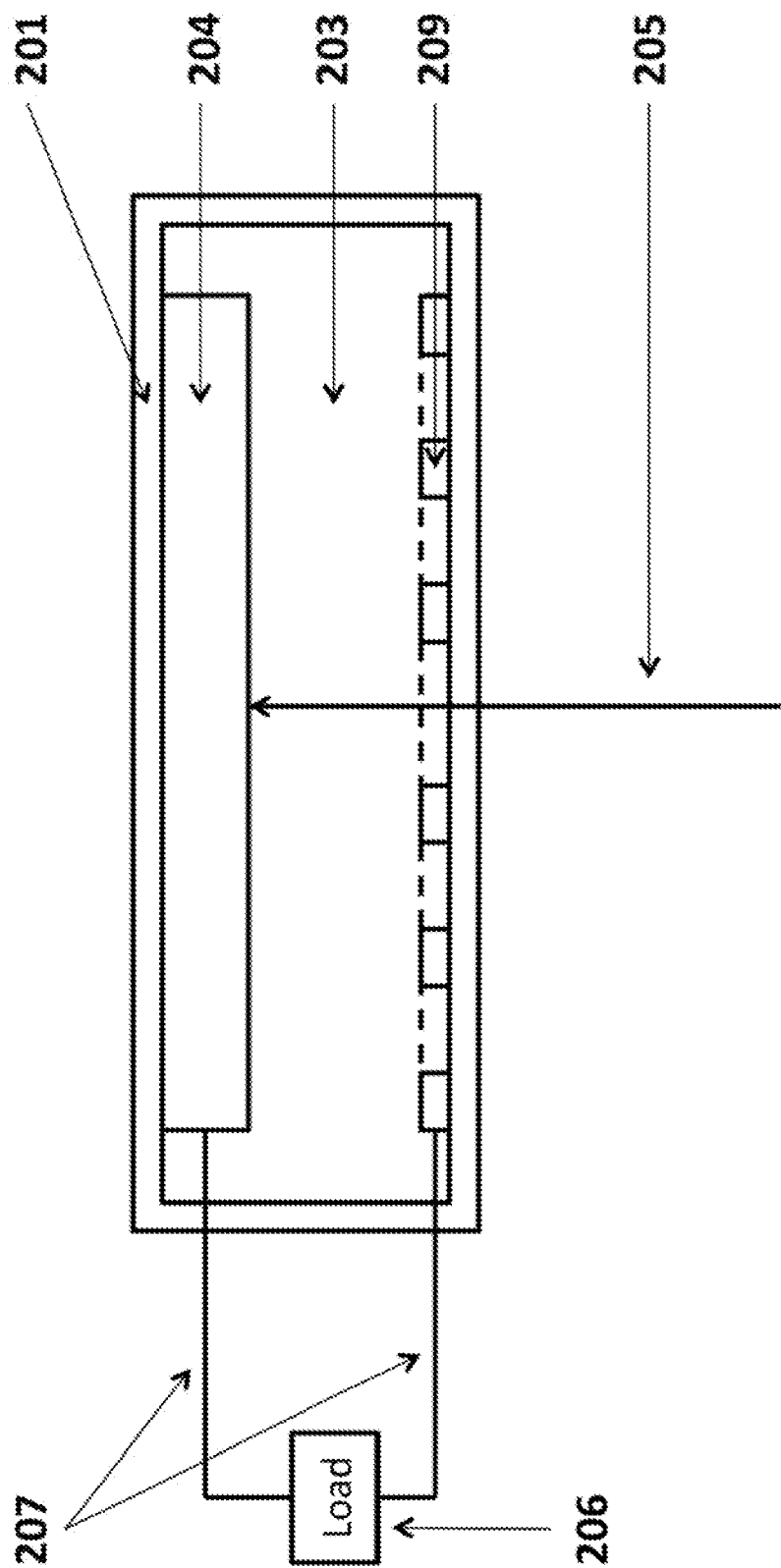


Fig. 2H1

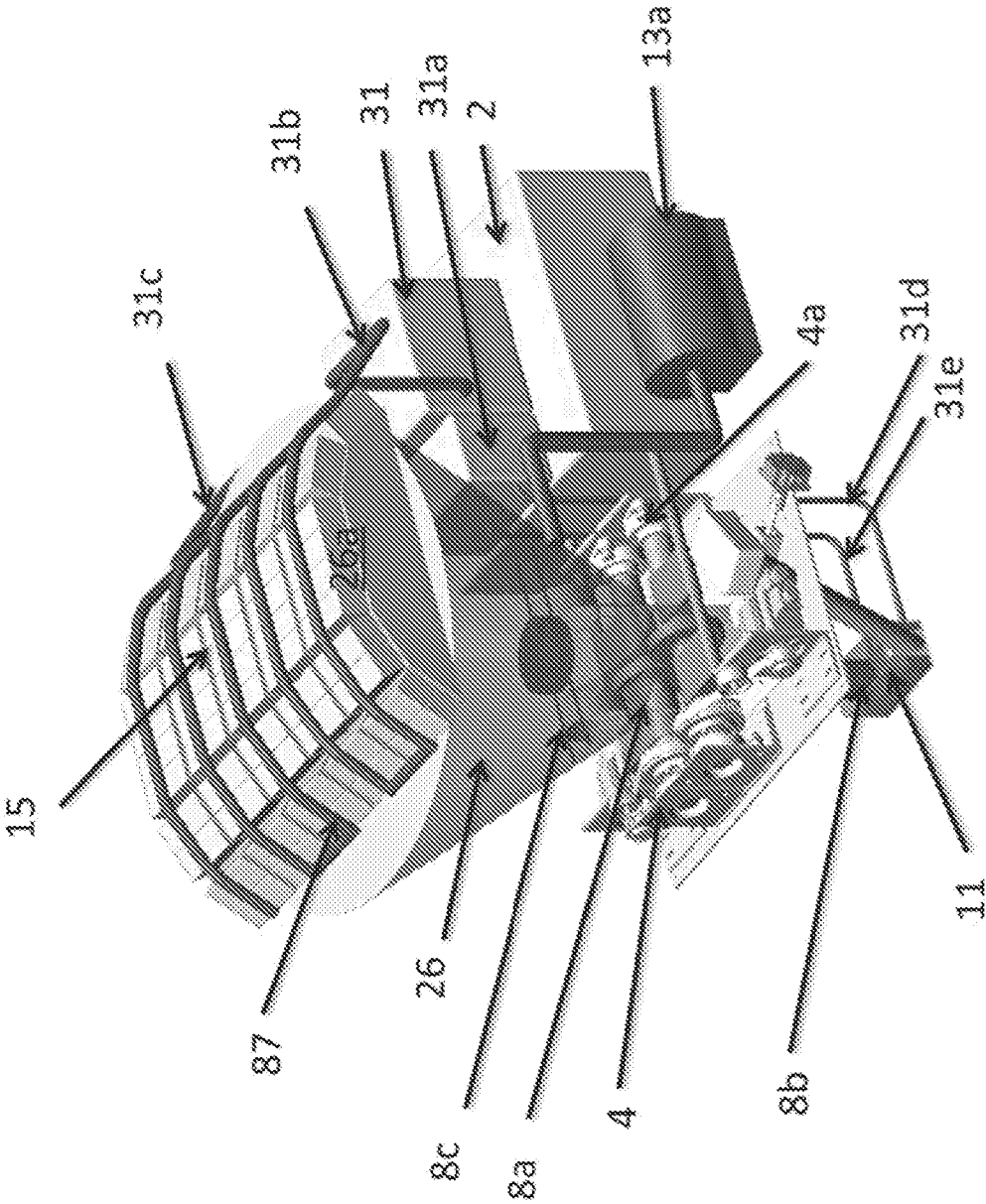


Fig. 2H2

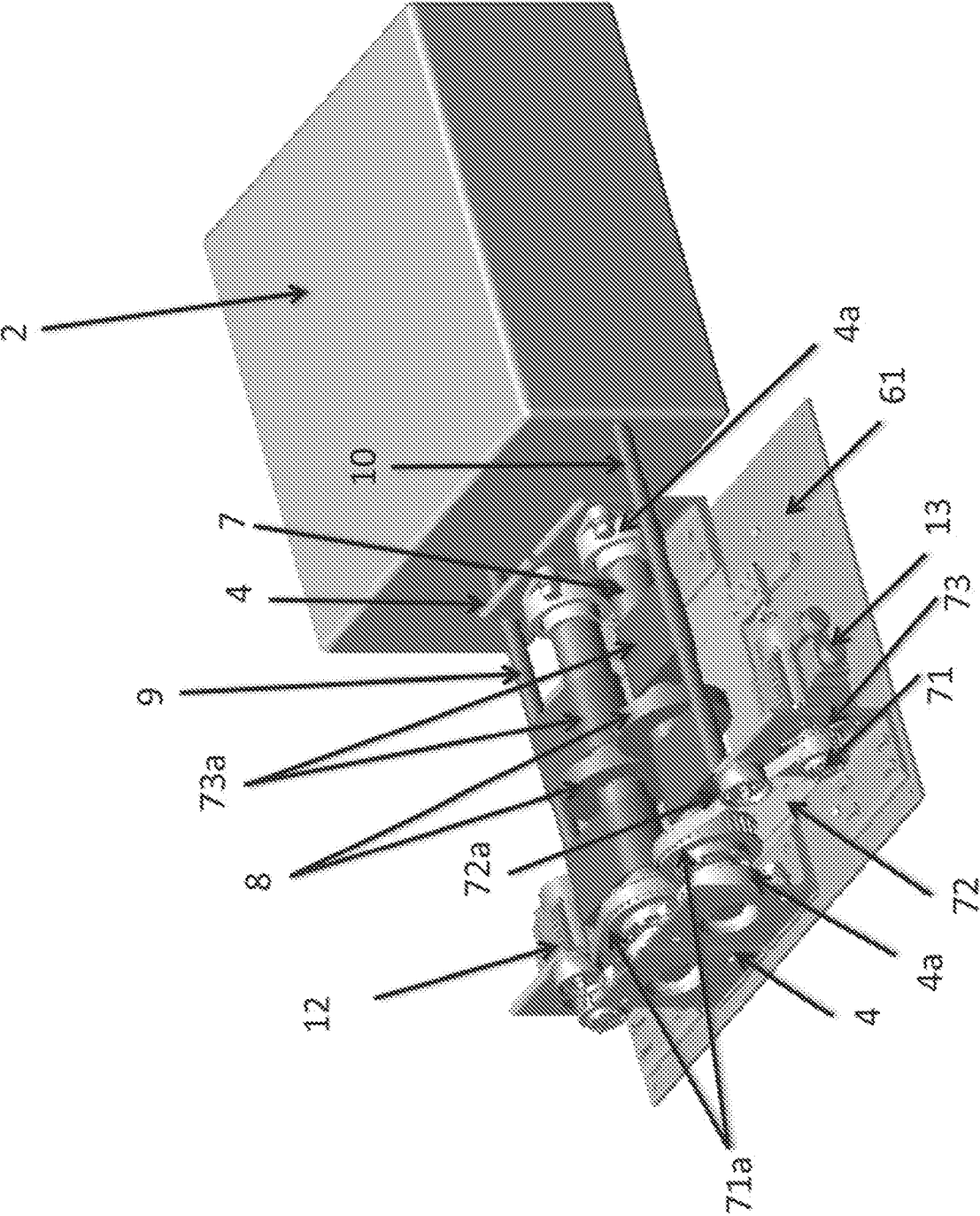


Fig. 2H3

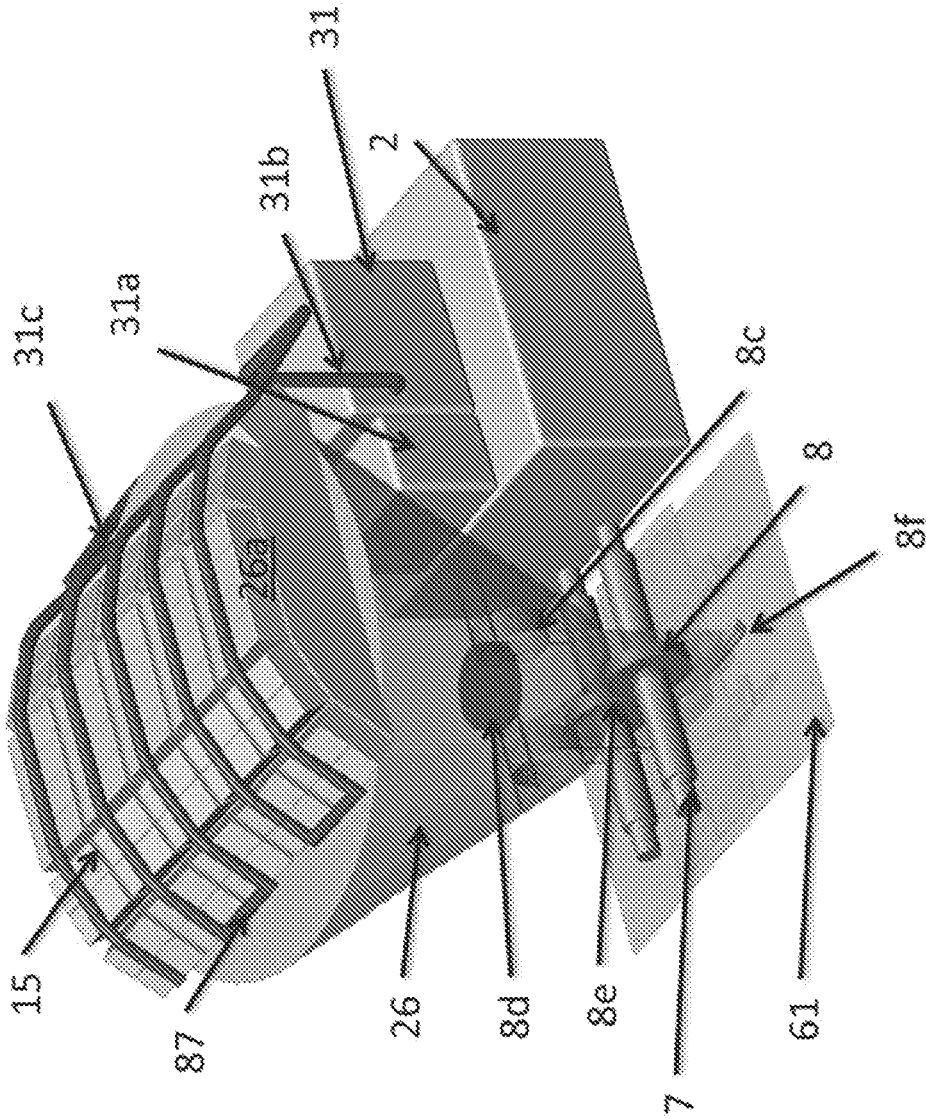


Fig. 2H4

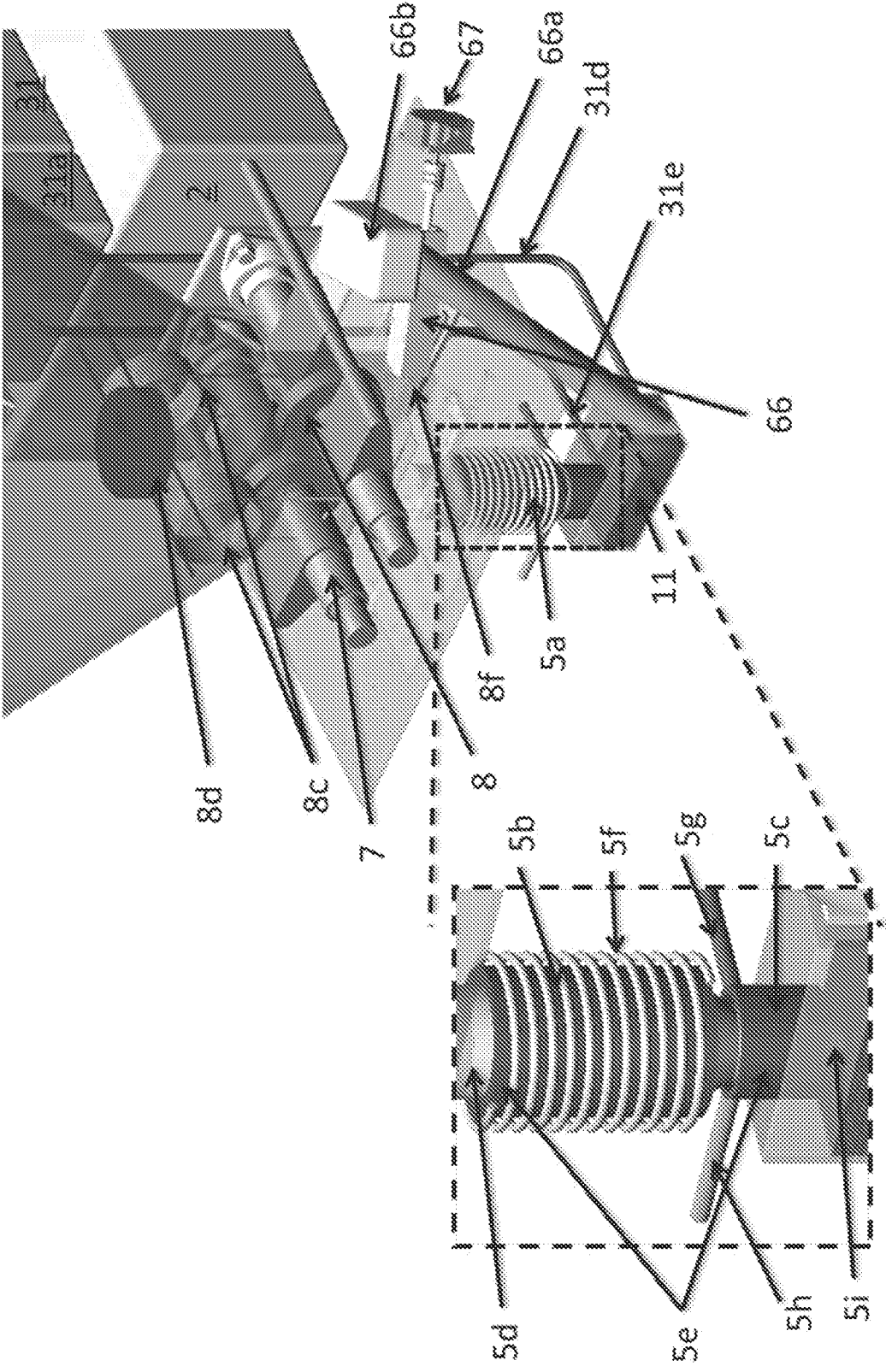


Fig. 211

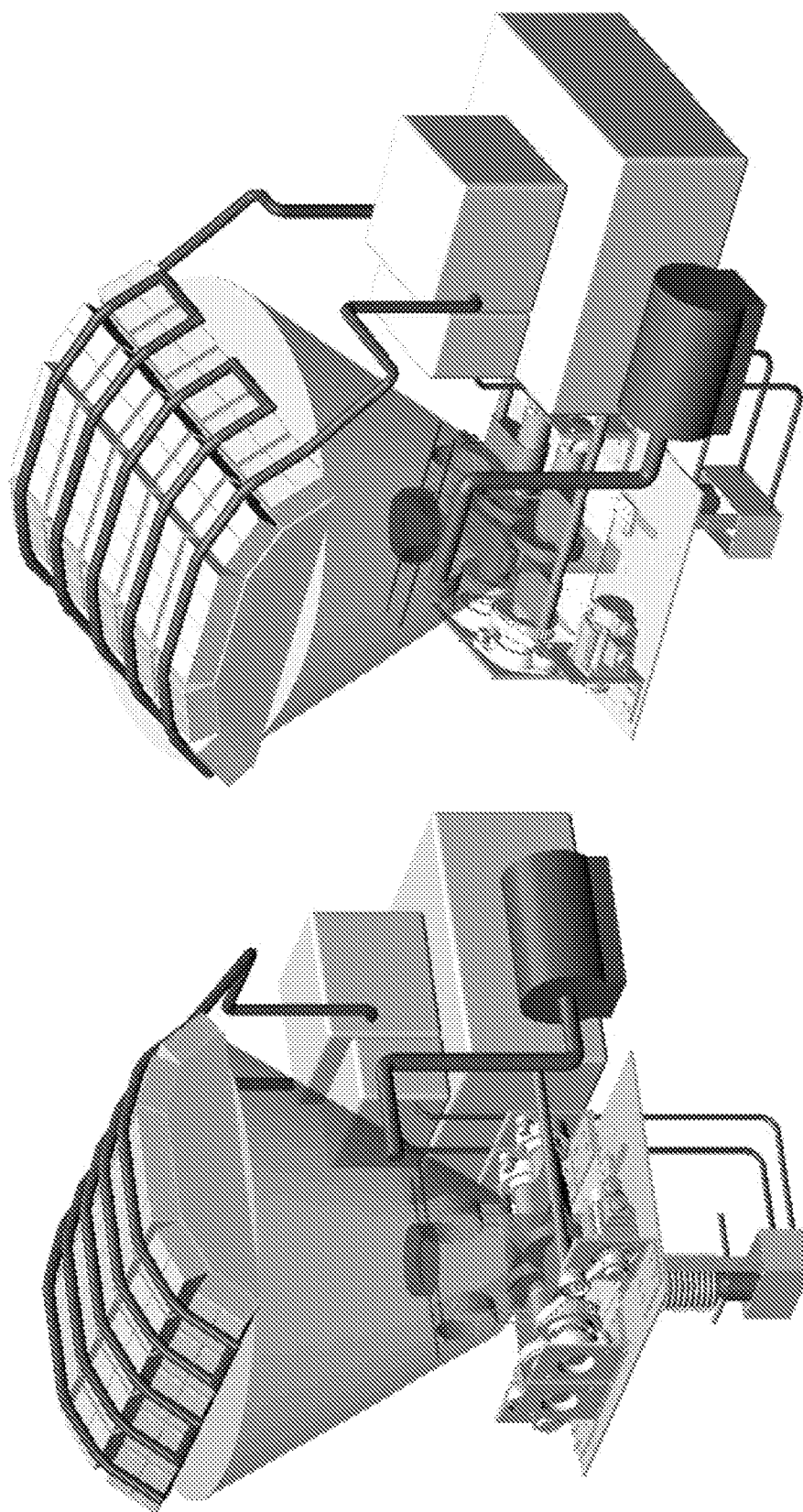


Fig. 212

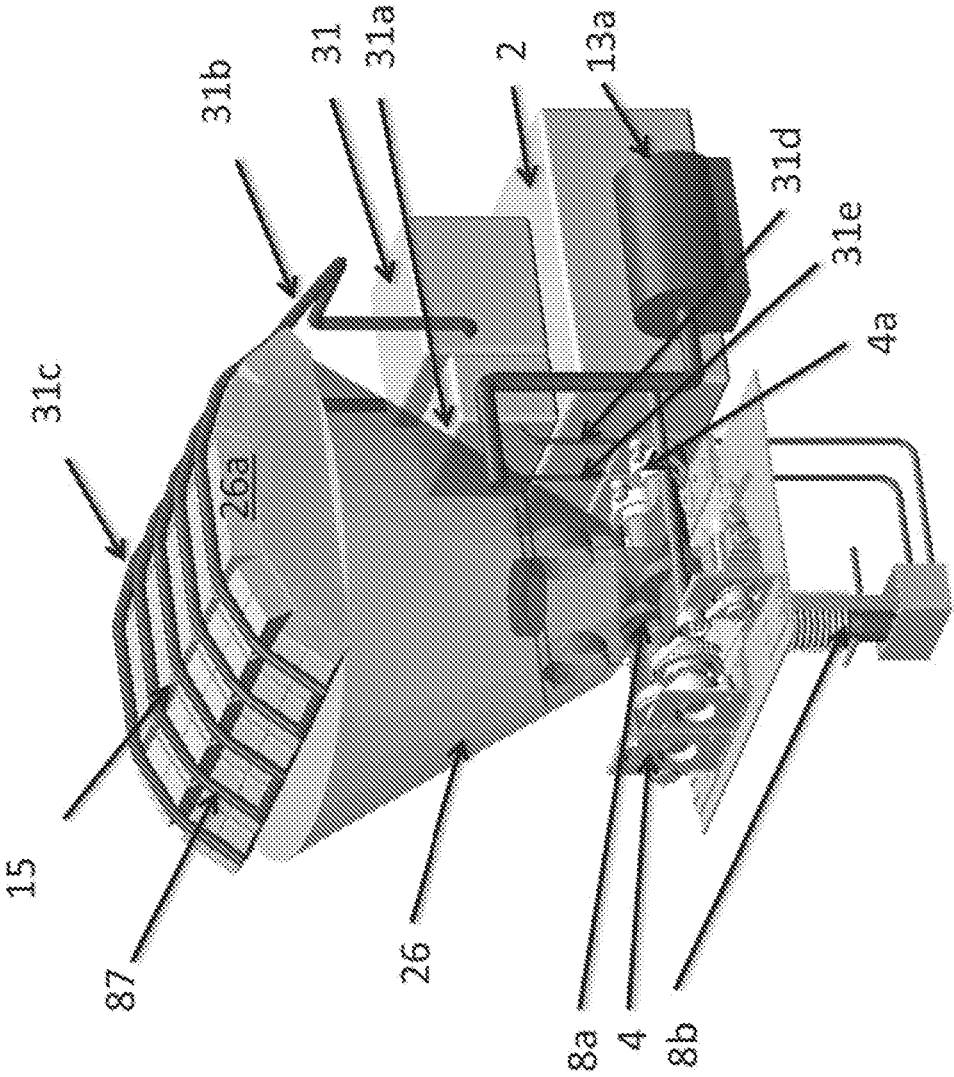


Fig. 213

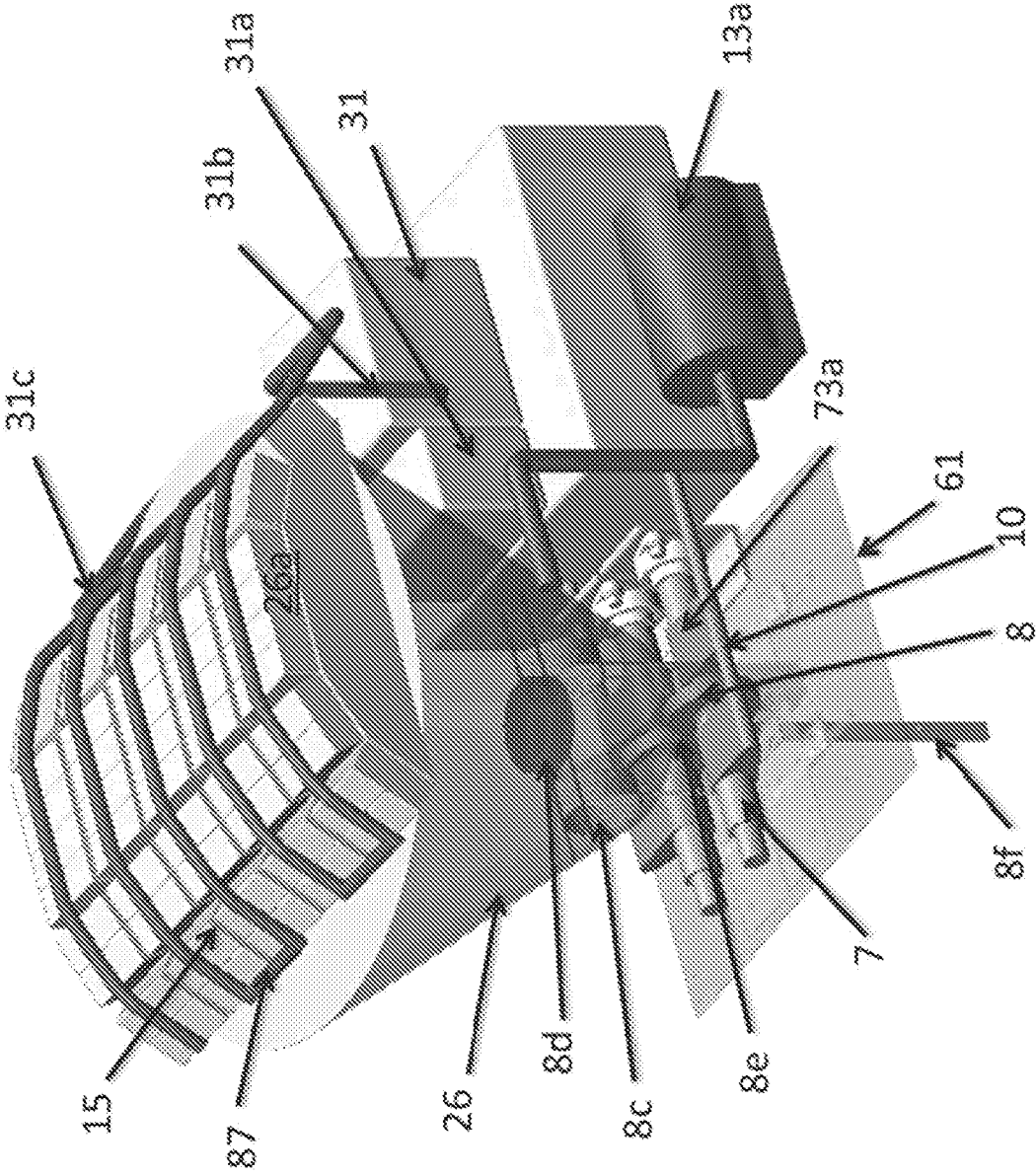
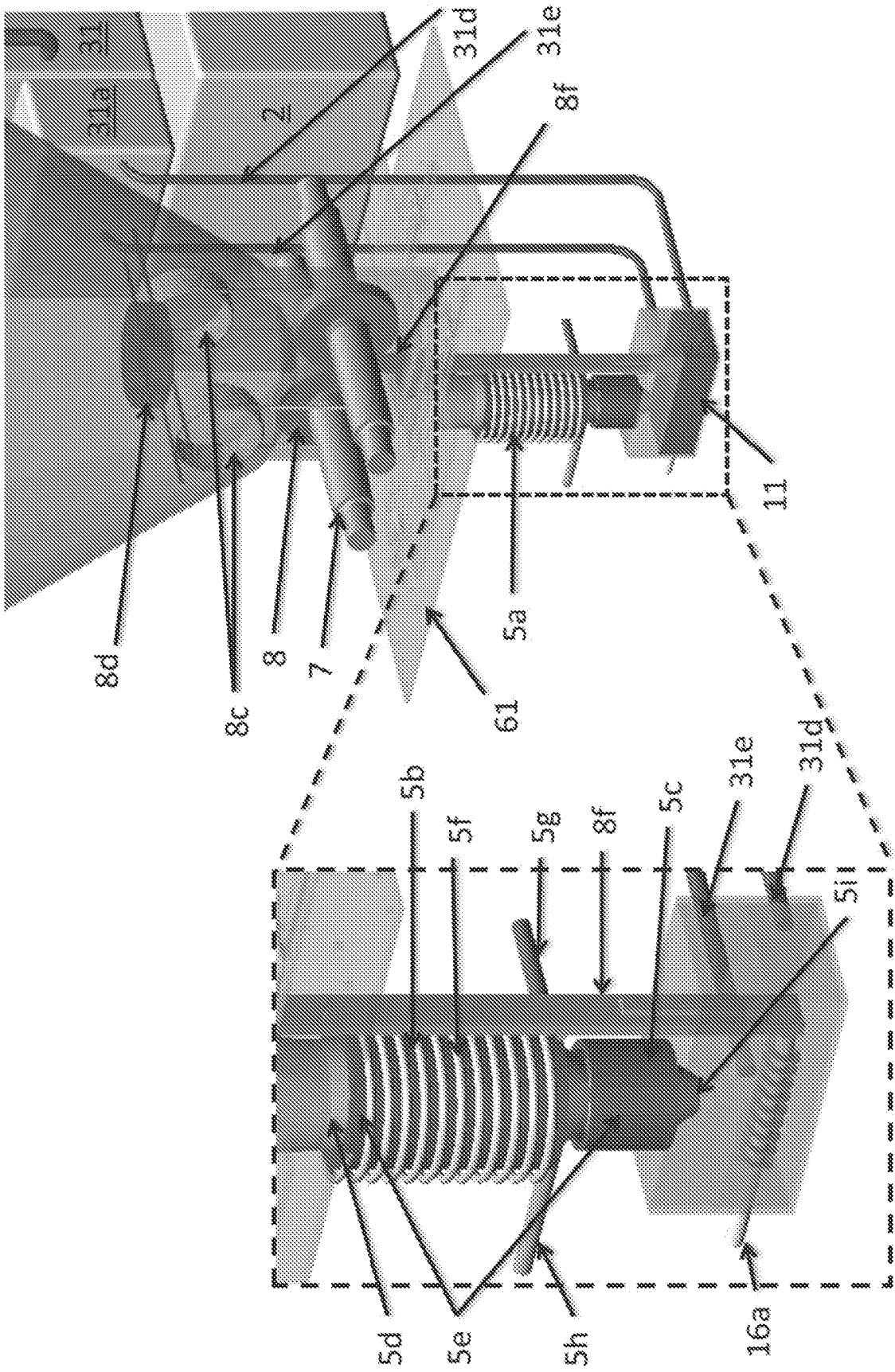
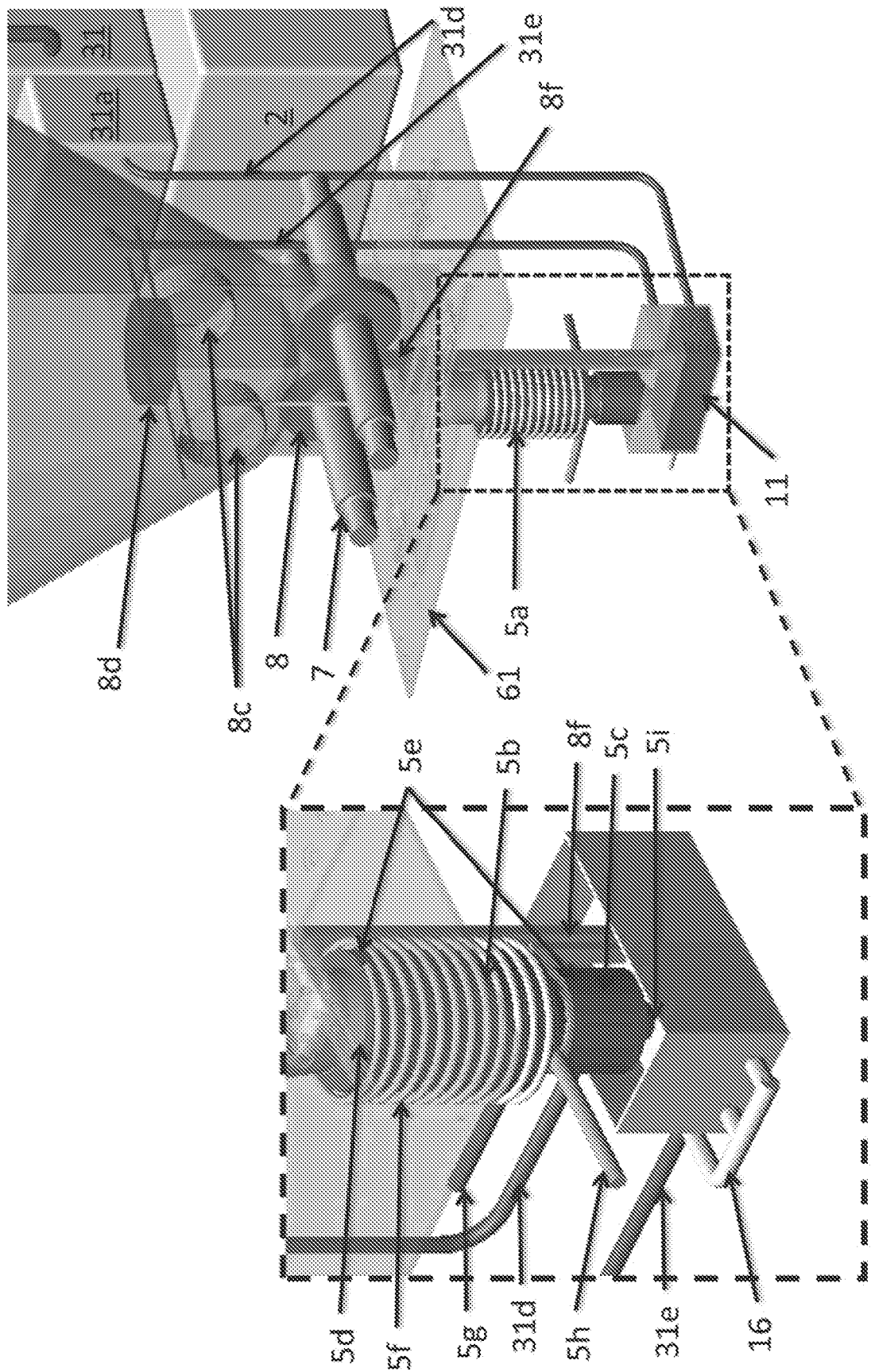


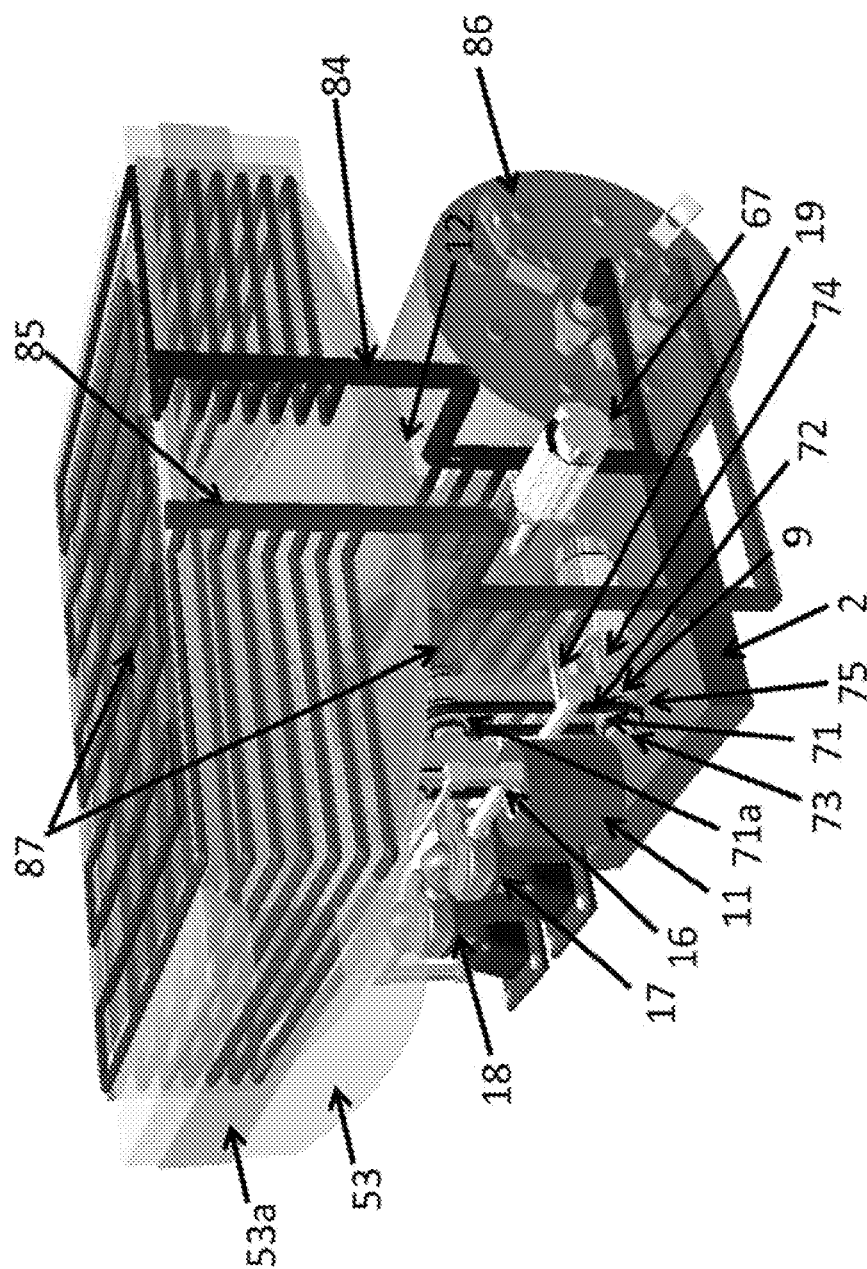
Fig. 2|4





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Fig. 2J



- 2. Source of Electrical Power
- 9. Pivoting Bus Bar
- 17. Water Ejection Pump
- 18. Water Sucking Line
- 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, Generator
- 87. Heat Exchanger

Fig. 3

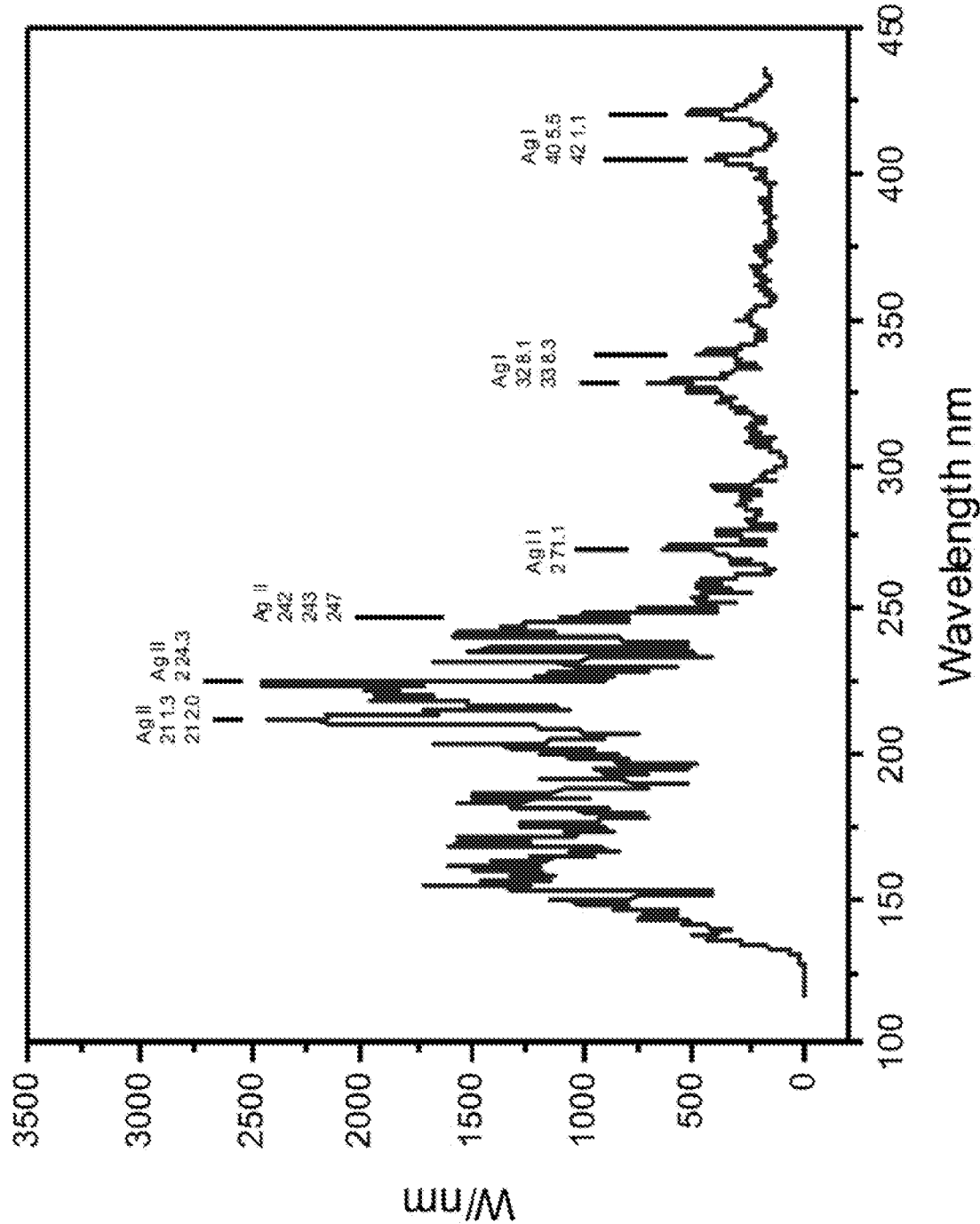


Fig. 4

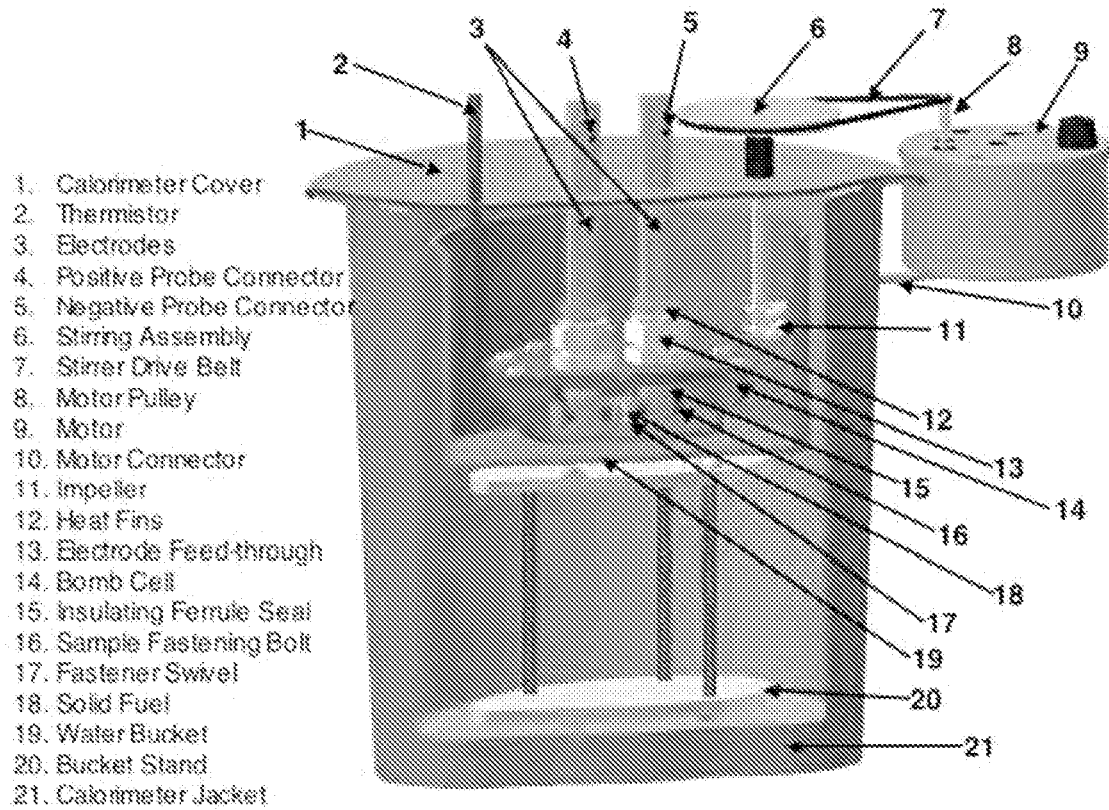


Fig. 5

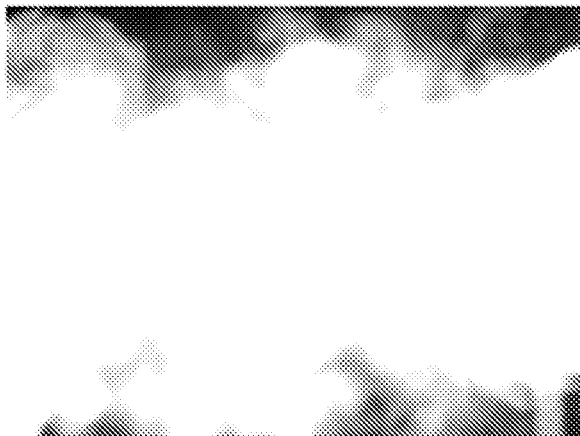


Fig. 6

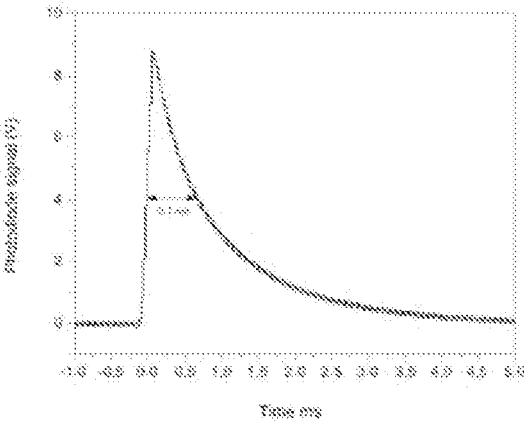


Fig. 7

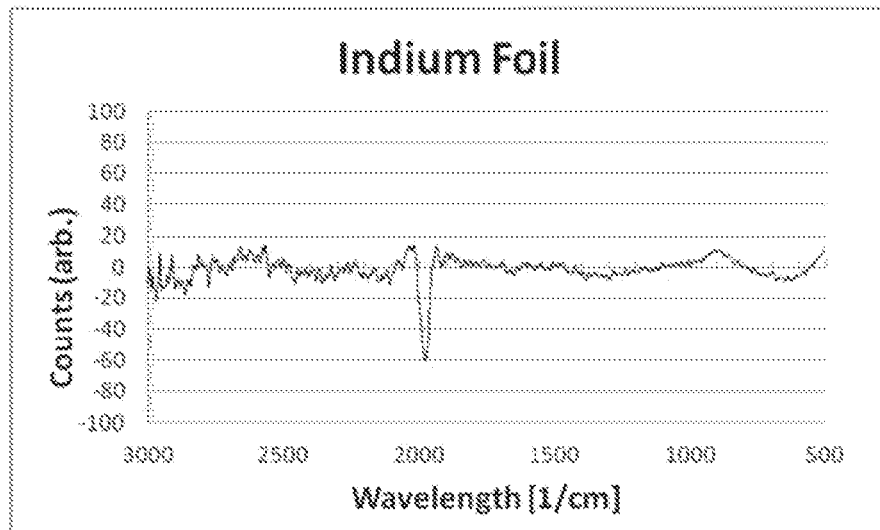


Fig. 8

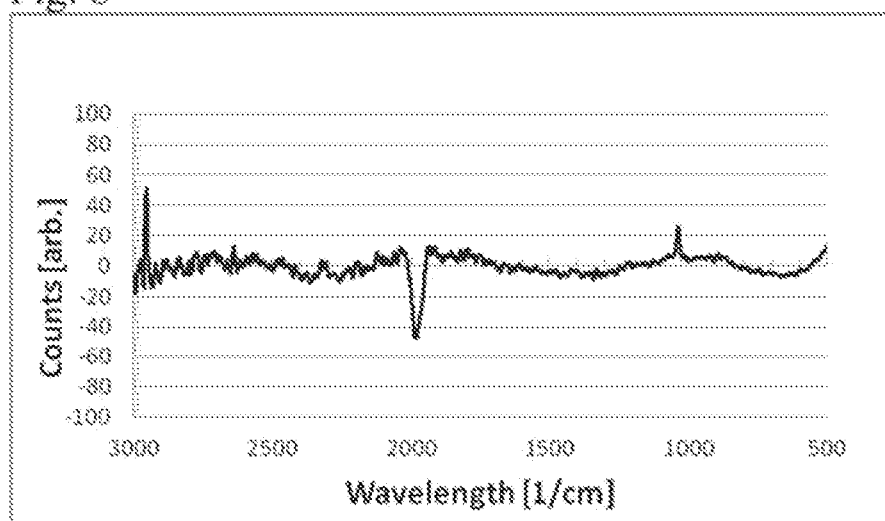


Fig. 9

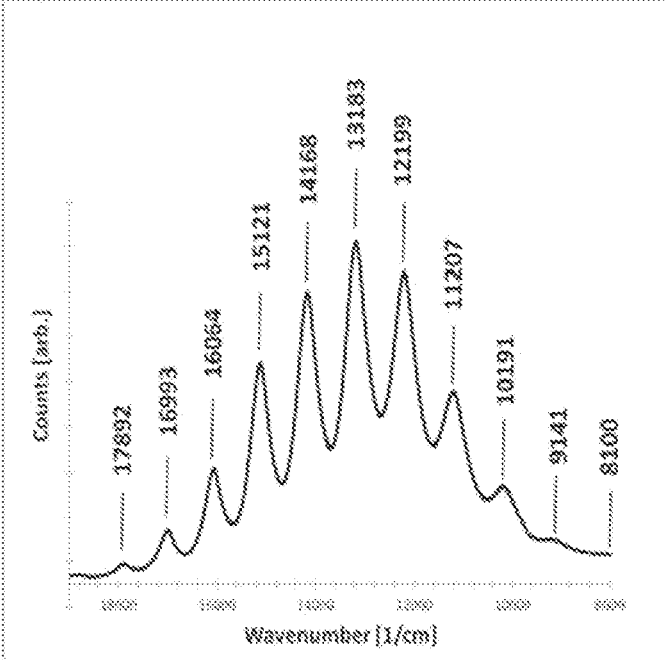
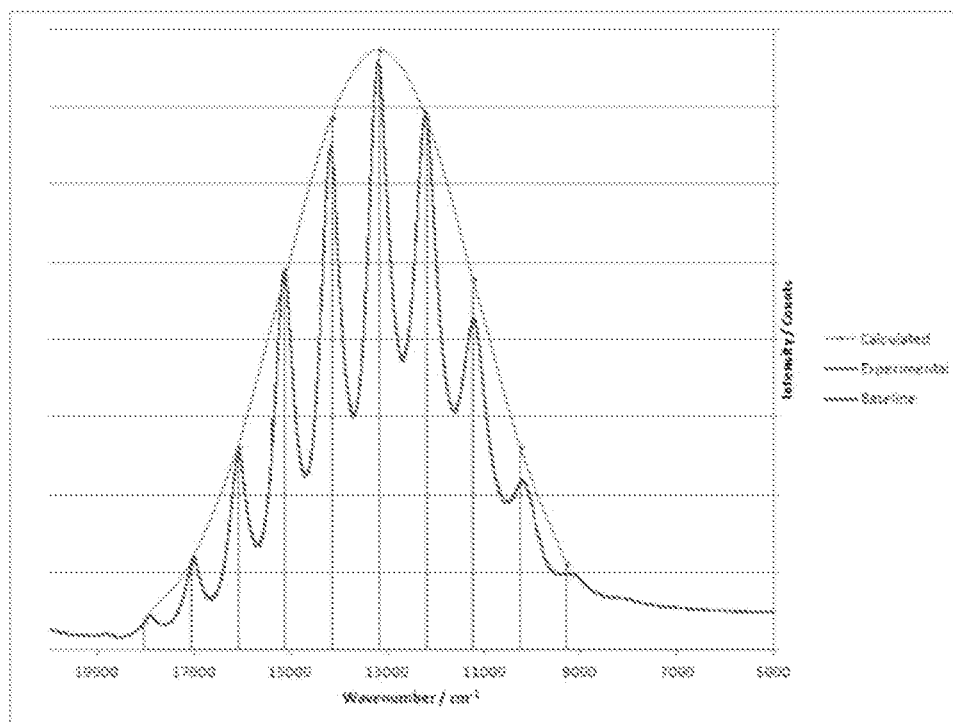
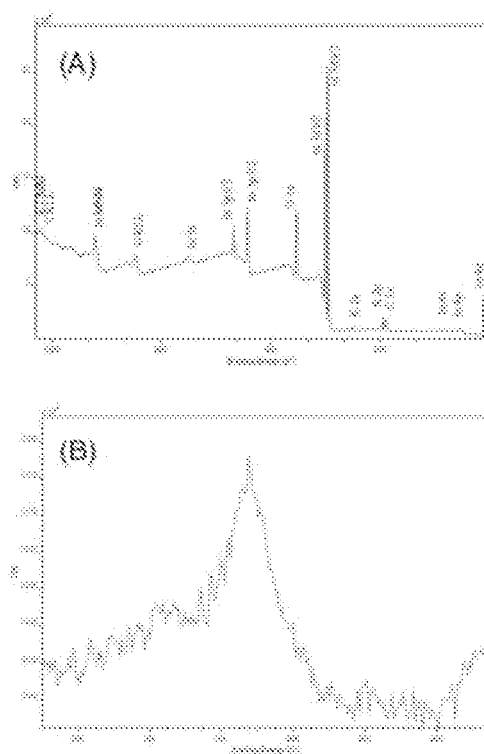


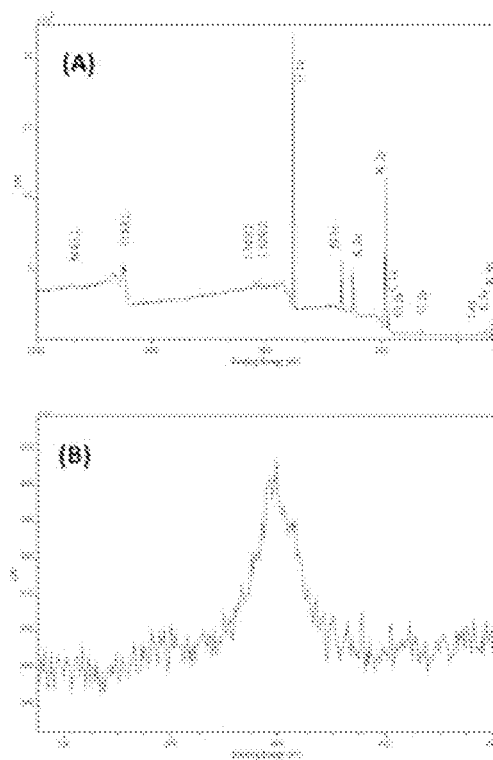
Fig. 10



Figs. 11A-B



Figs. 12A-B



Figs. 13A-B

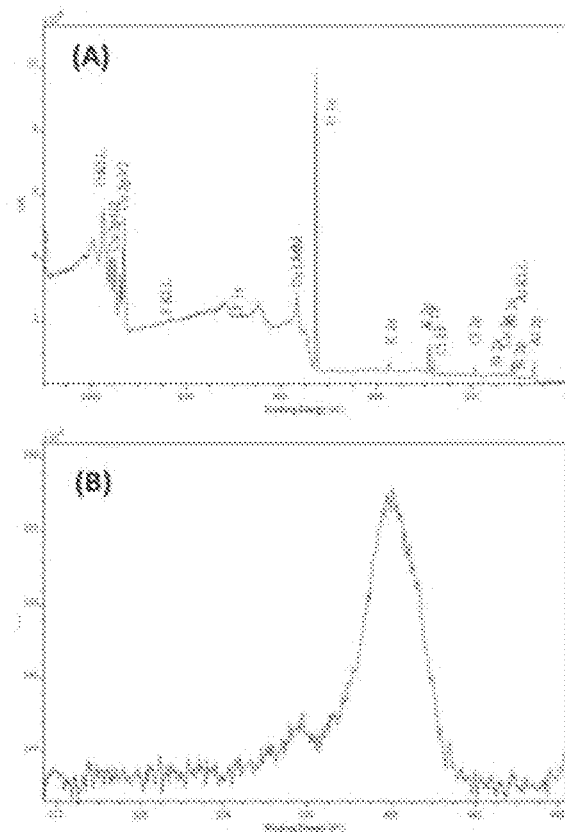


Fig. 14

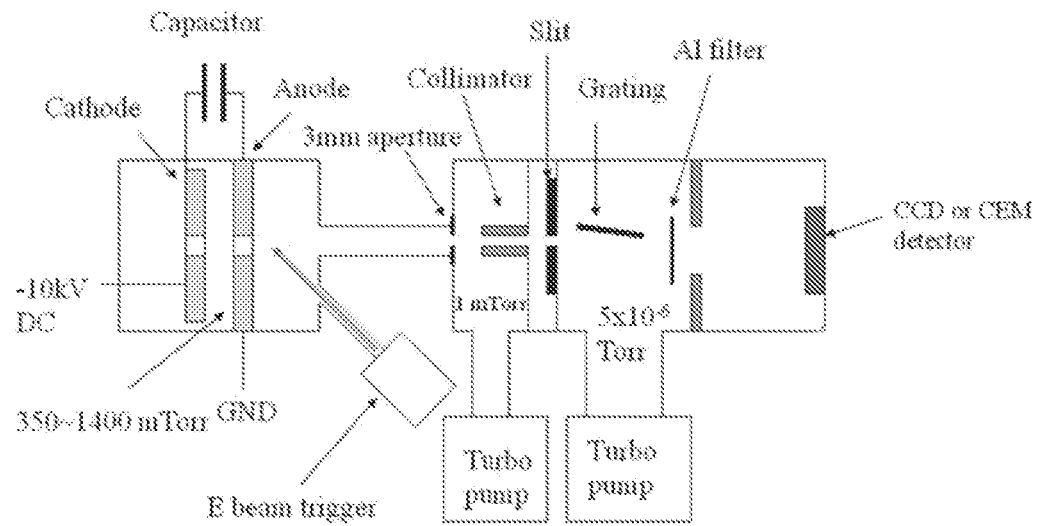


Fig. 15

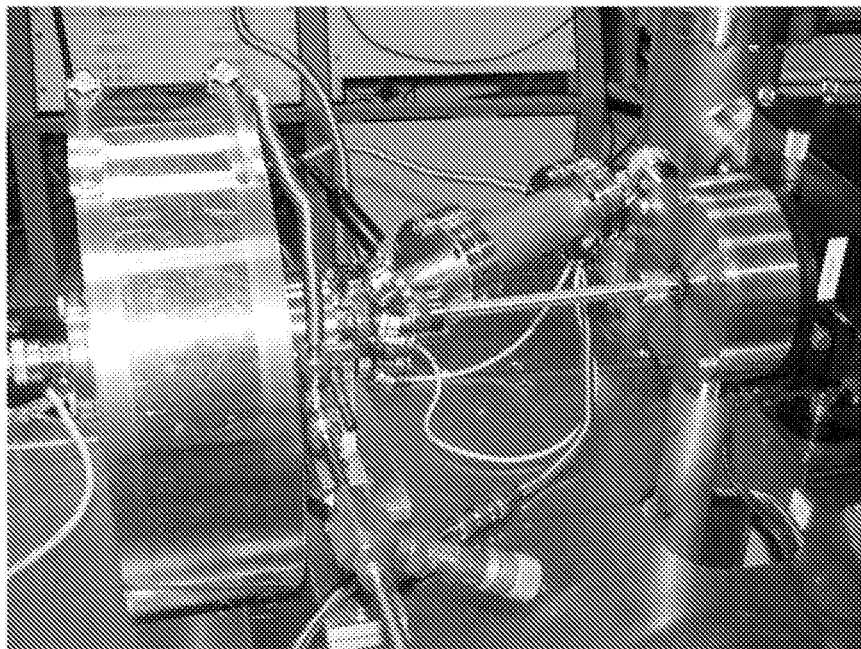
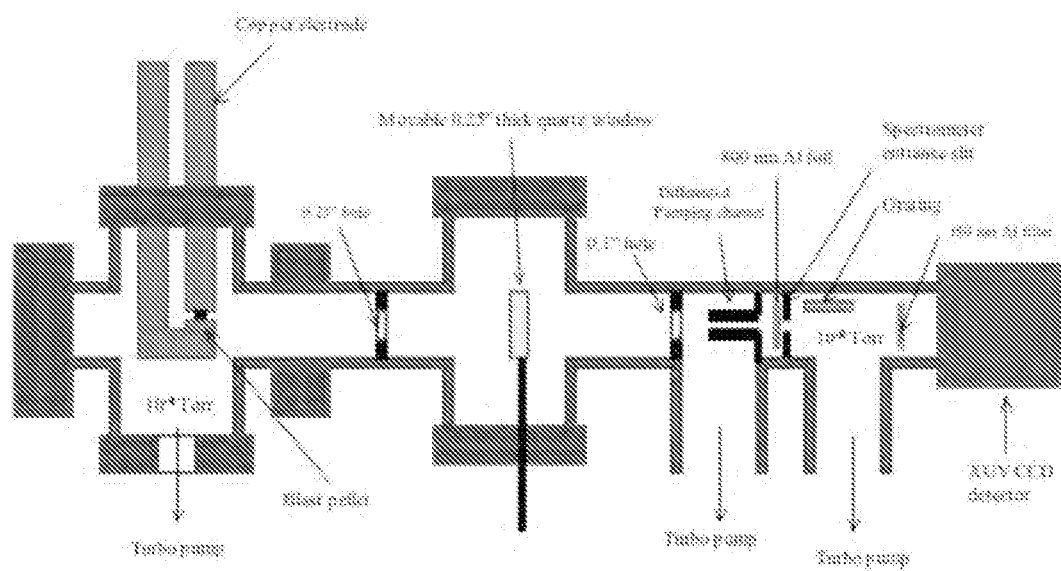
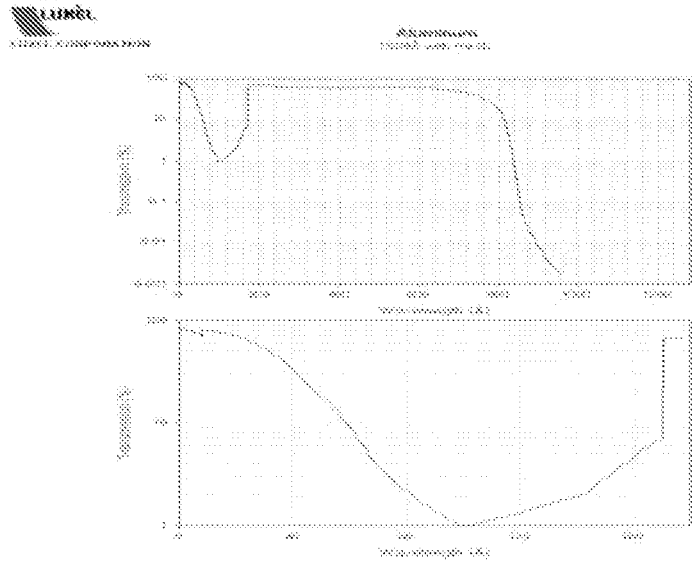


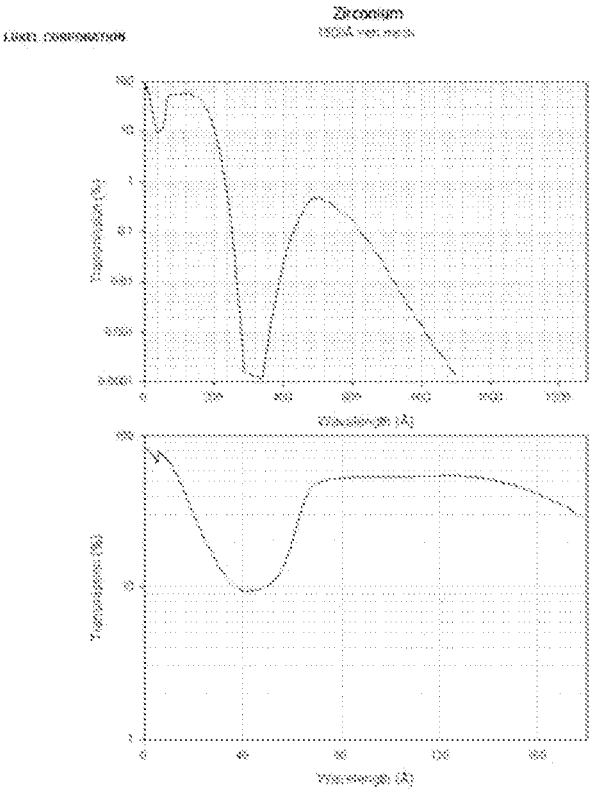
Fig. 16



Figs. 17A-B

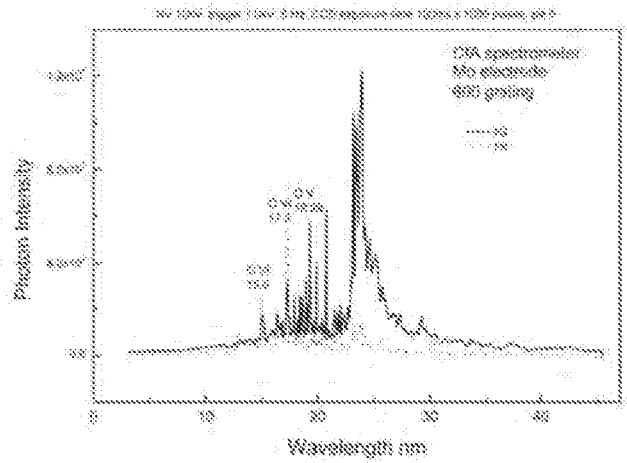


(A)

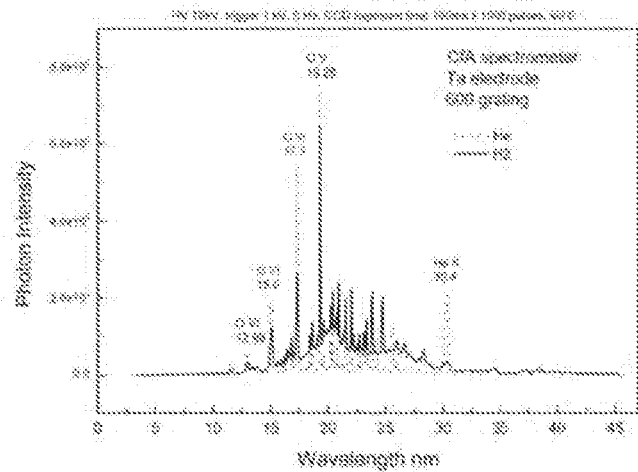


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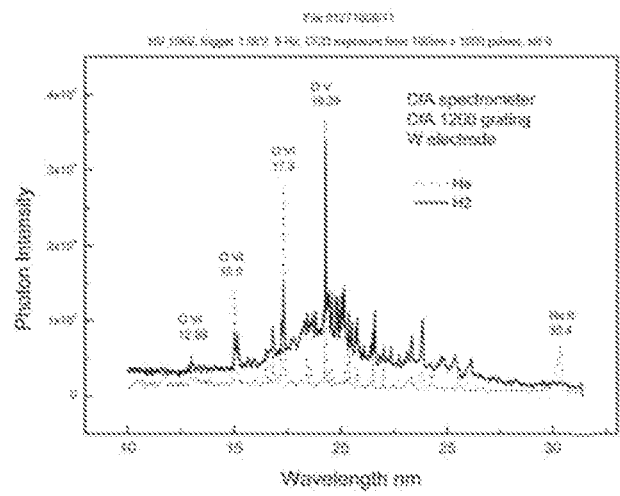
Figs. 18A-D



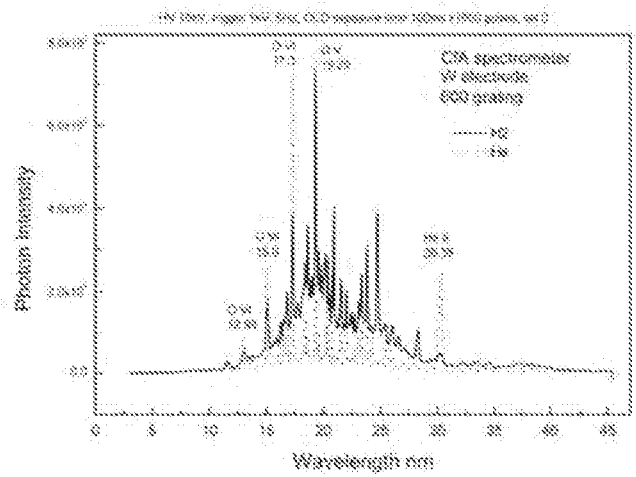
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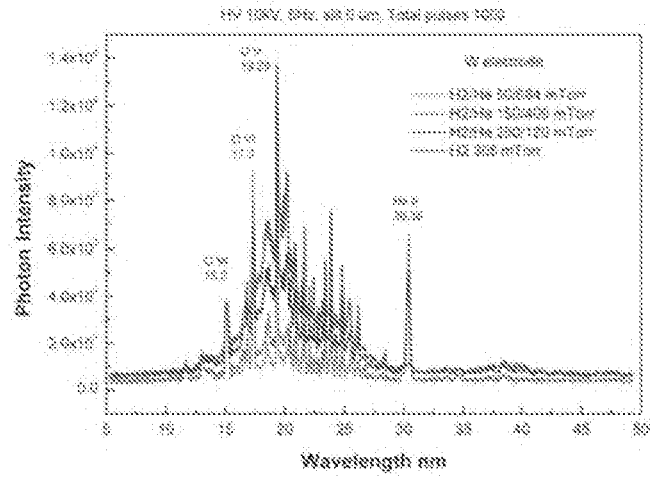


(C)

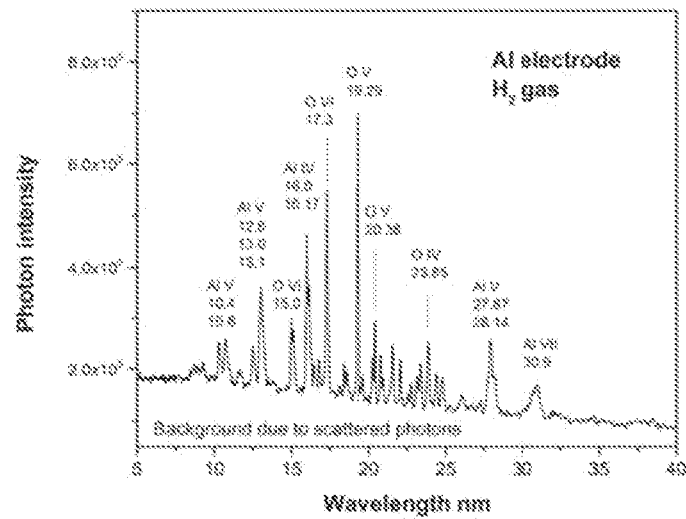


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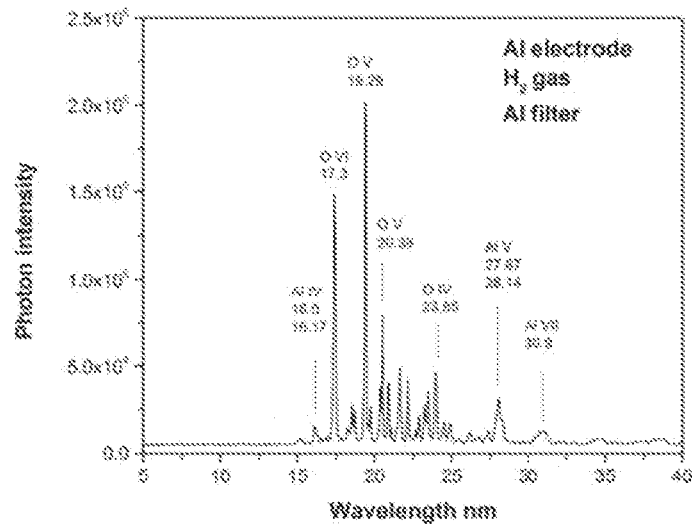
Fig. 19



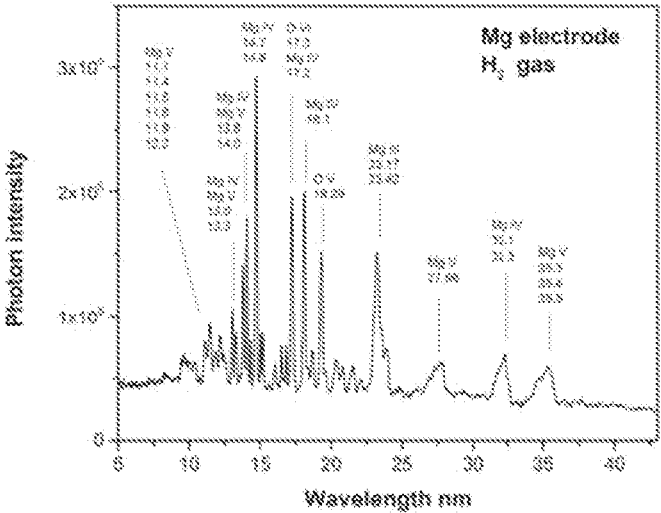
Figs. 20A-D



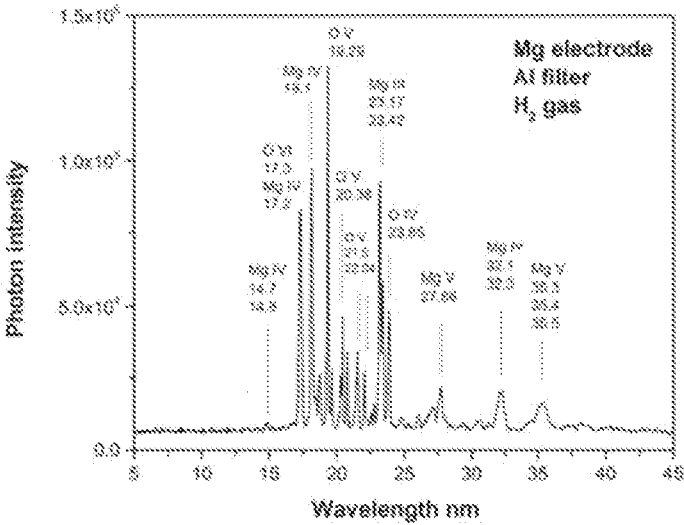
(A)



(B)

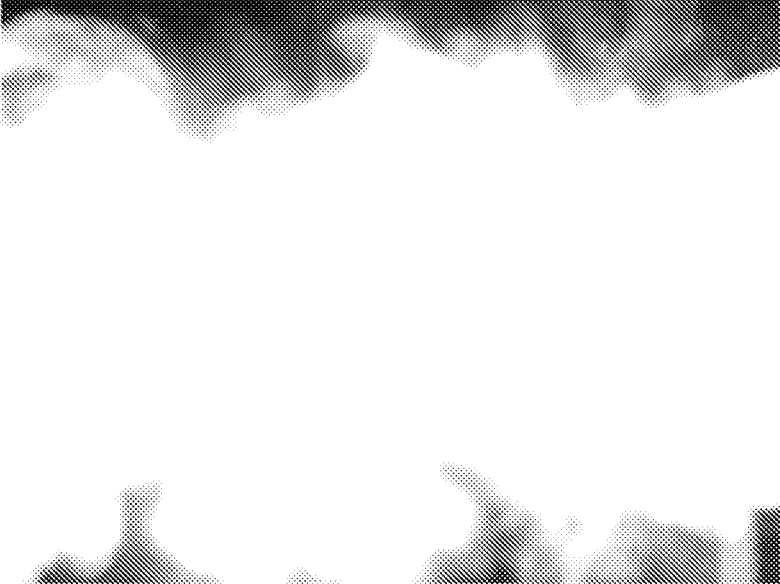


(C)

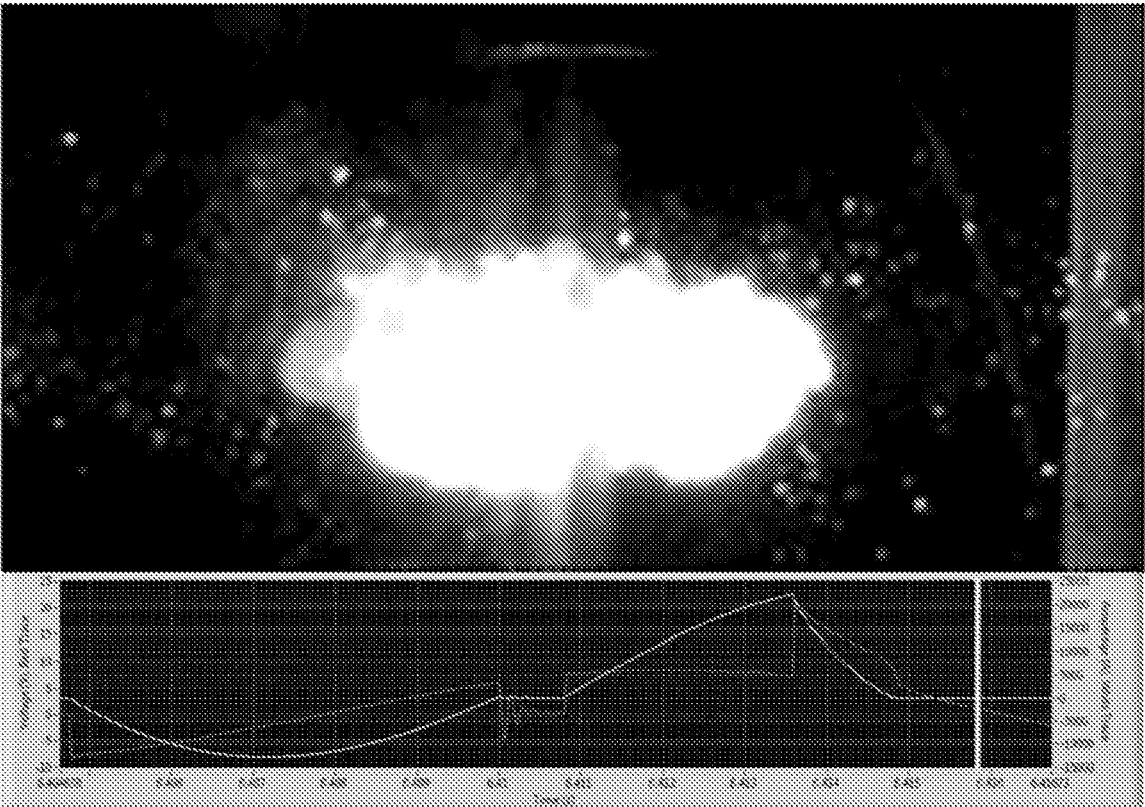


(D)

Figs. 21A-B



(A)



(B)

Fig. 22

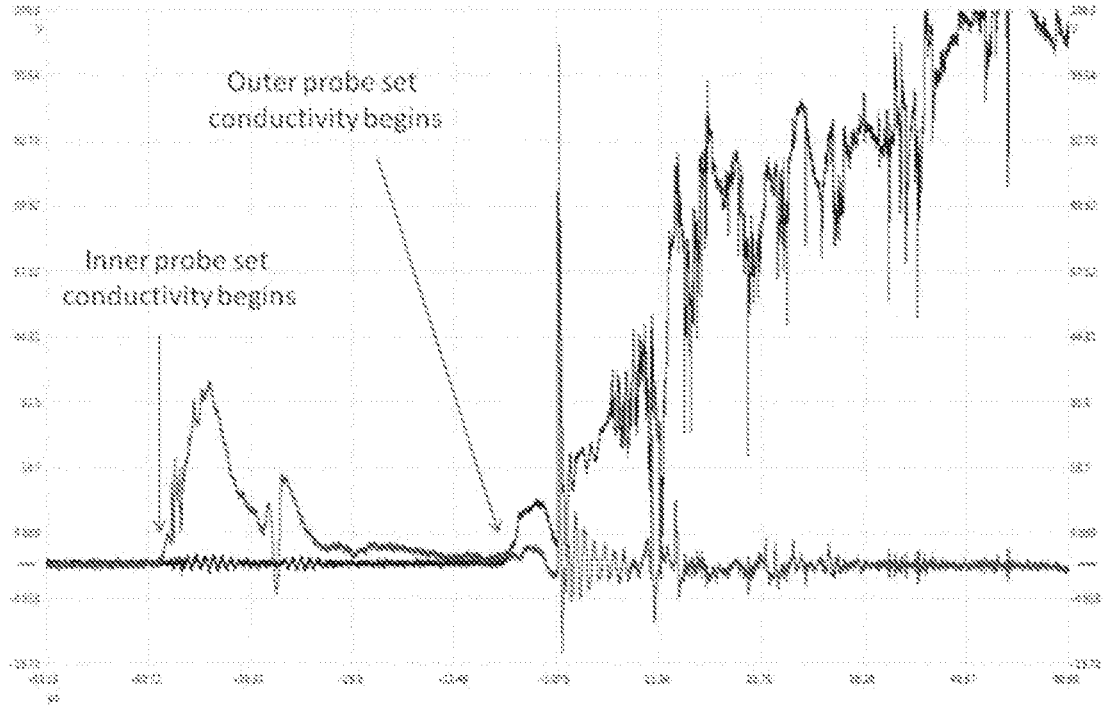


Fig. 23

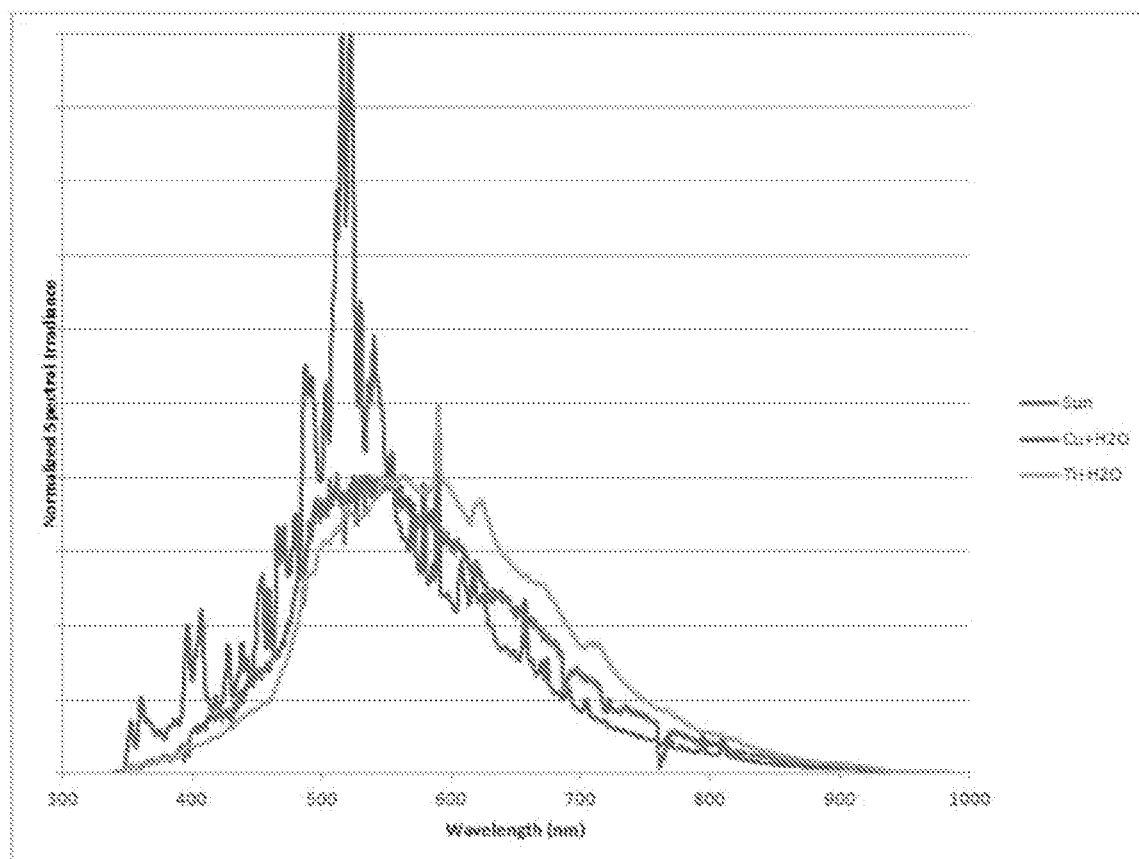


Fig. 24

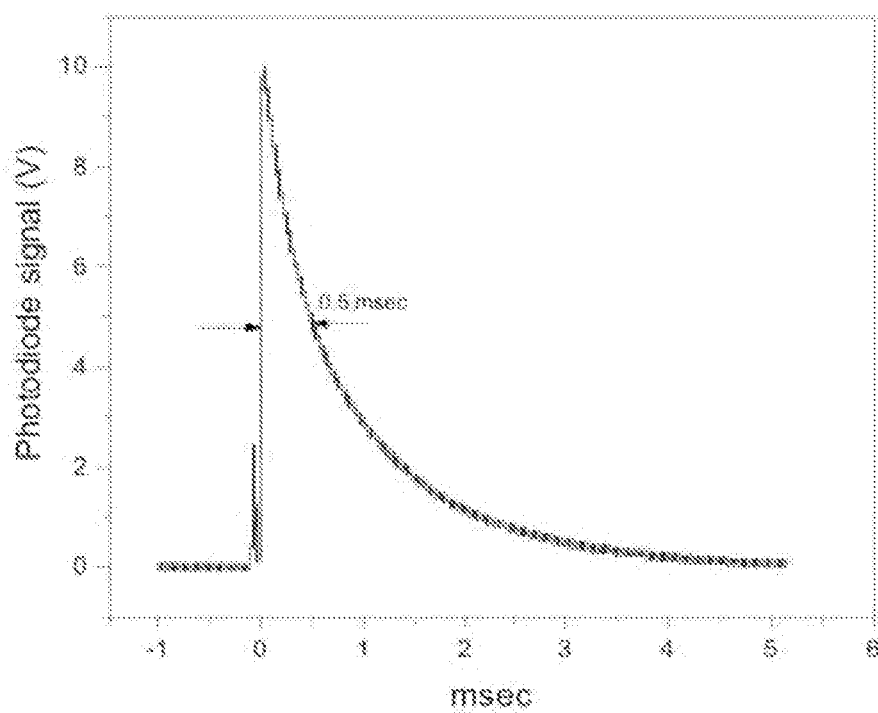
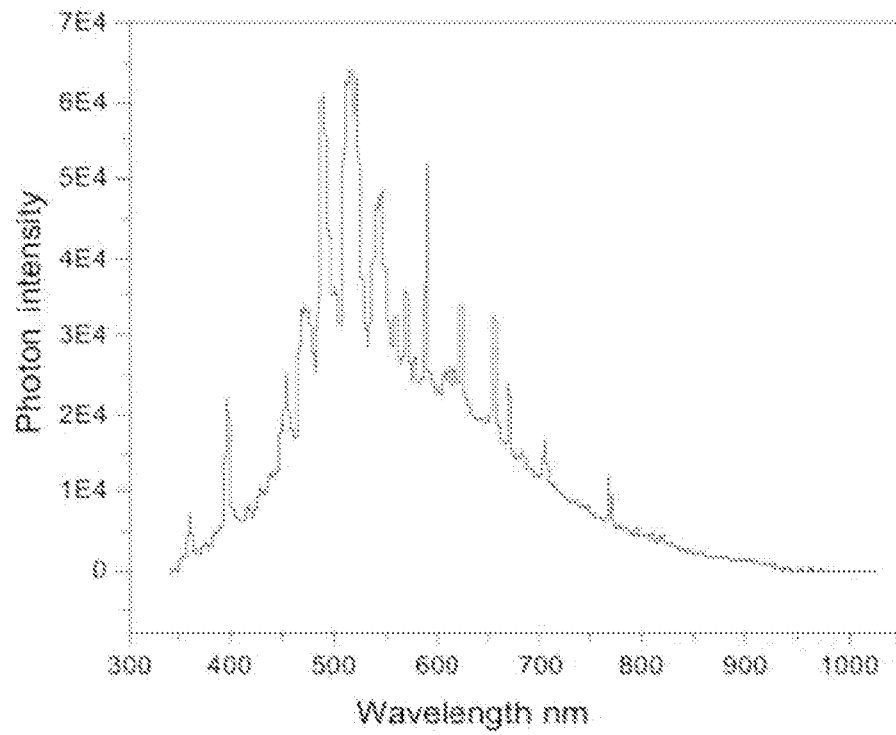
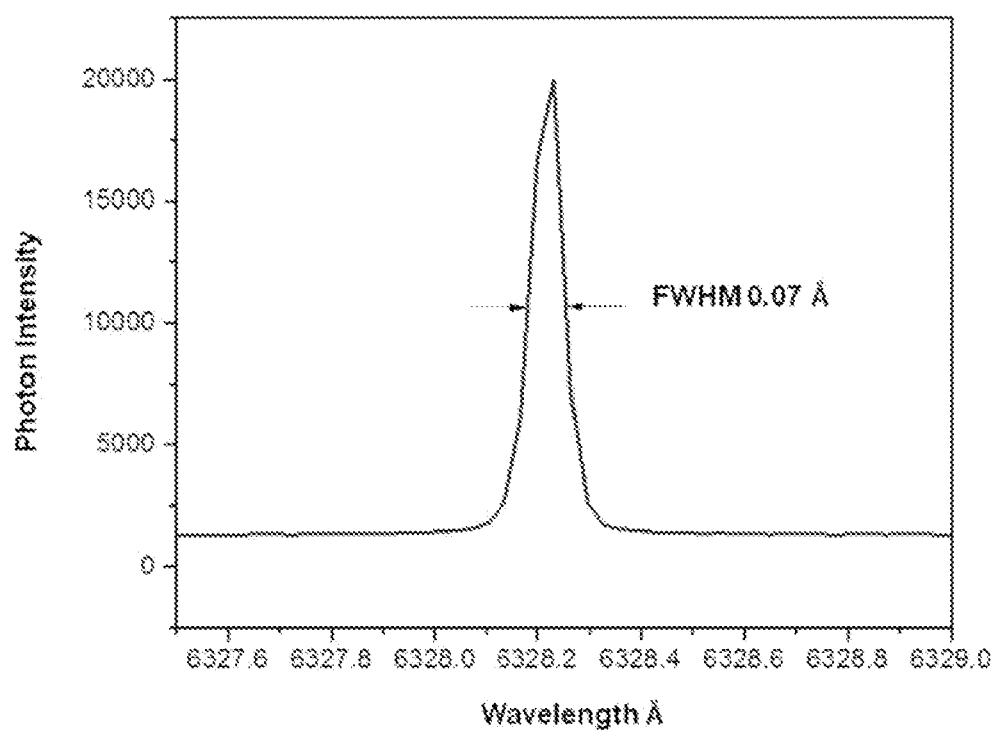


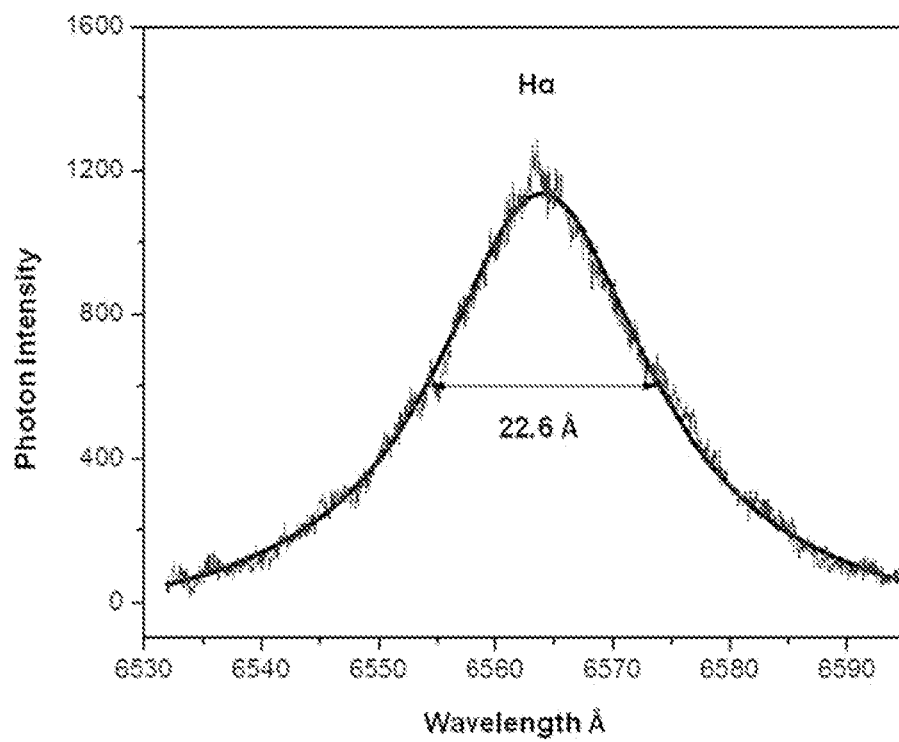
Fig. 25



Figs. 26A-B



(A)



(B)

Fig. 27

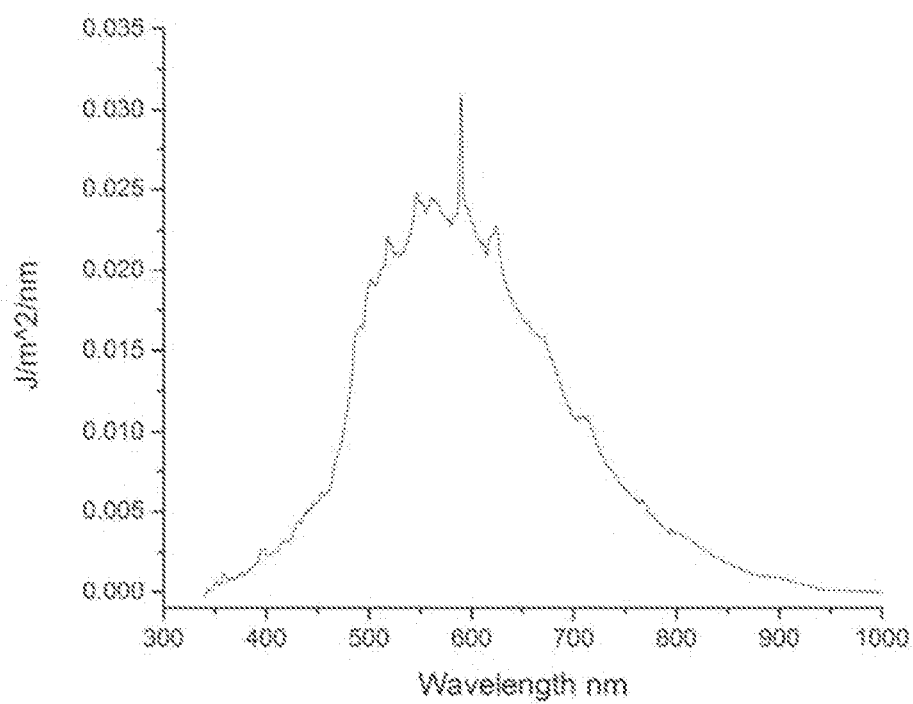


Fig. 28

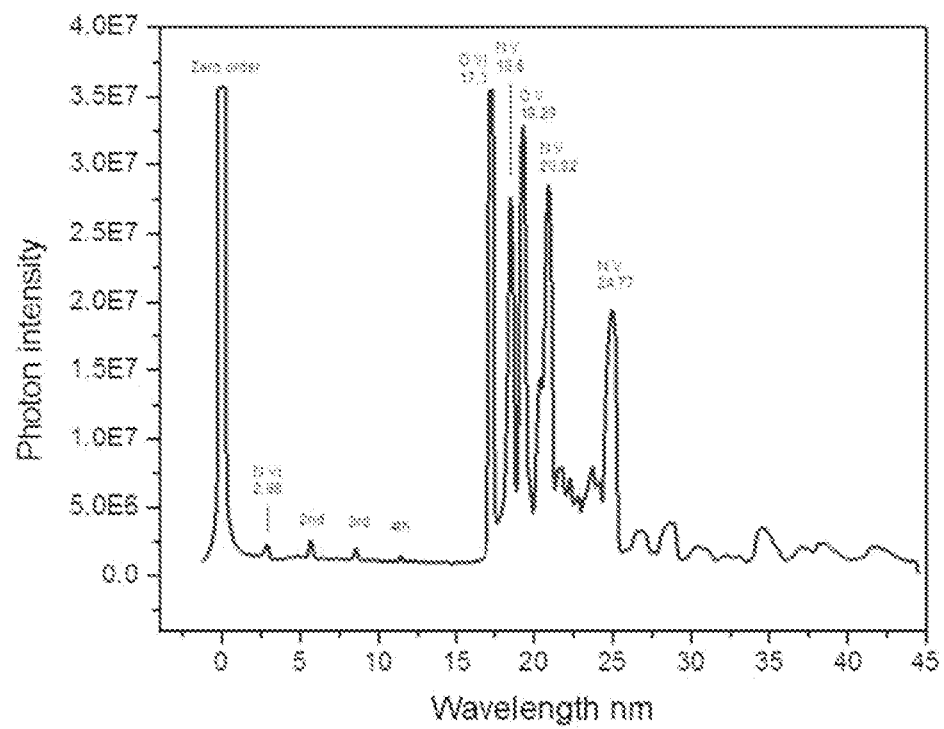


Fig. 29

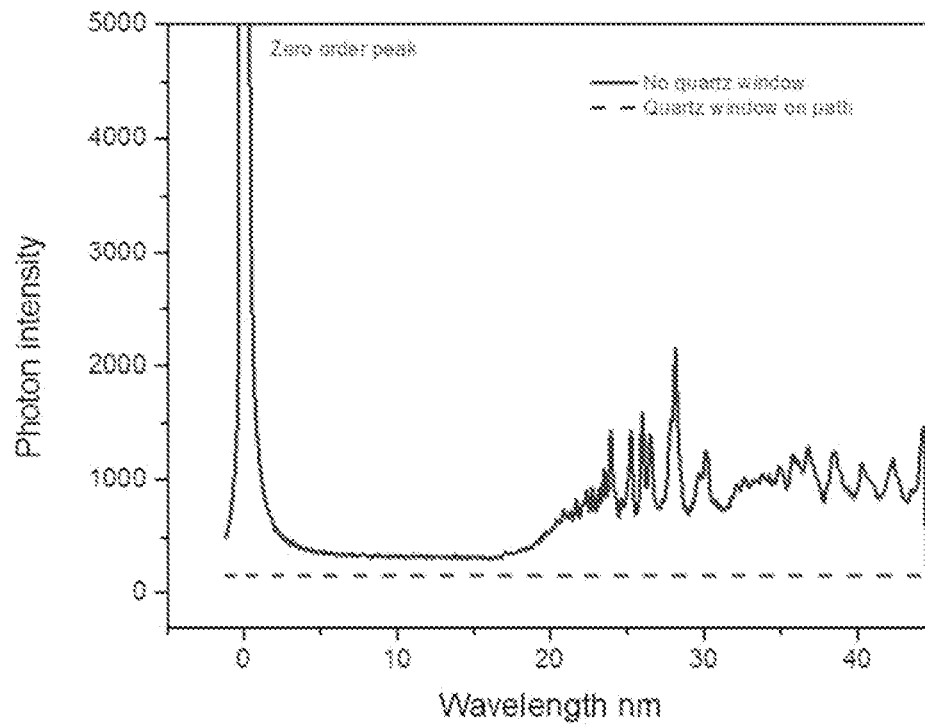


Fig. 30

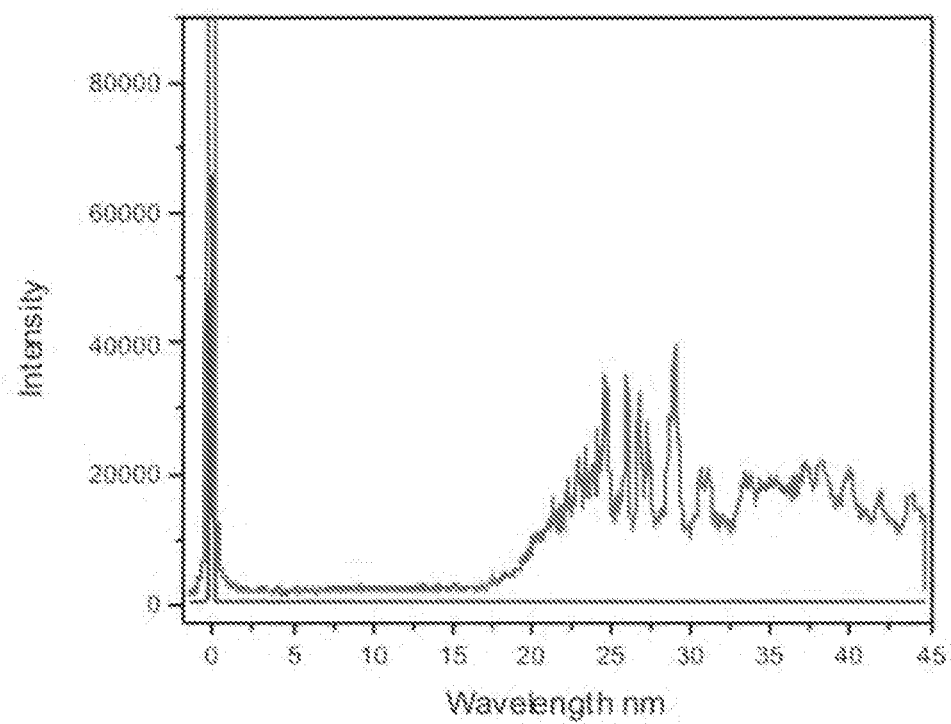


Fig. 31

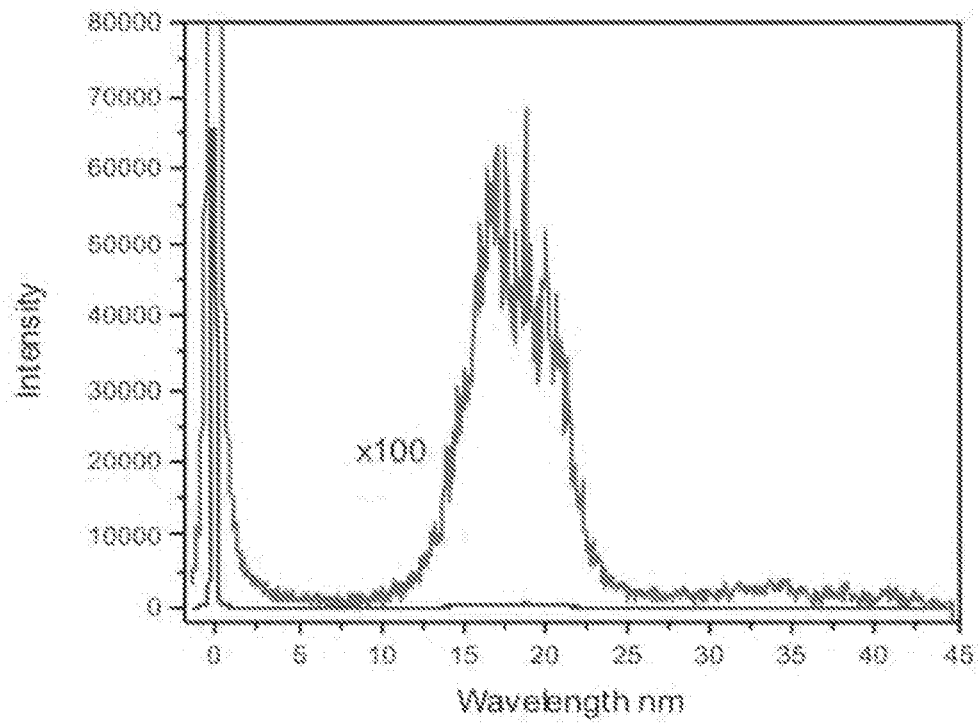


Fig. 32

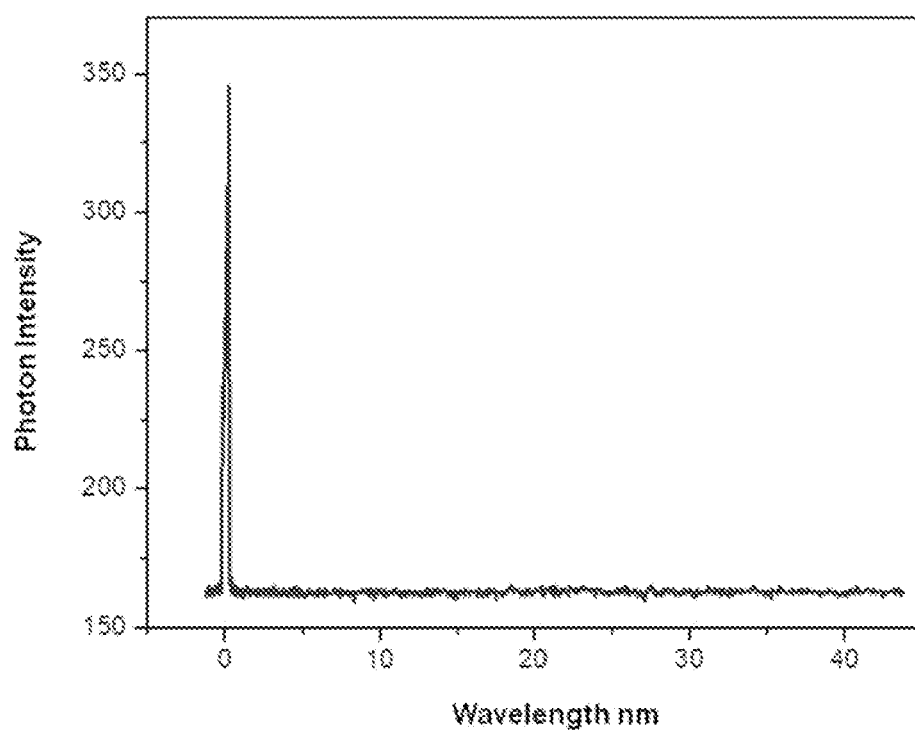


Fig. 33

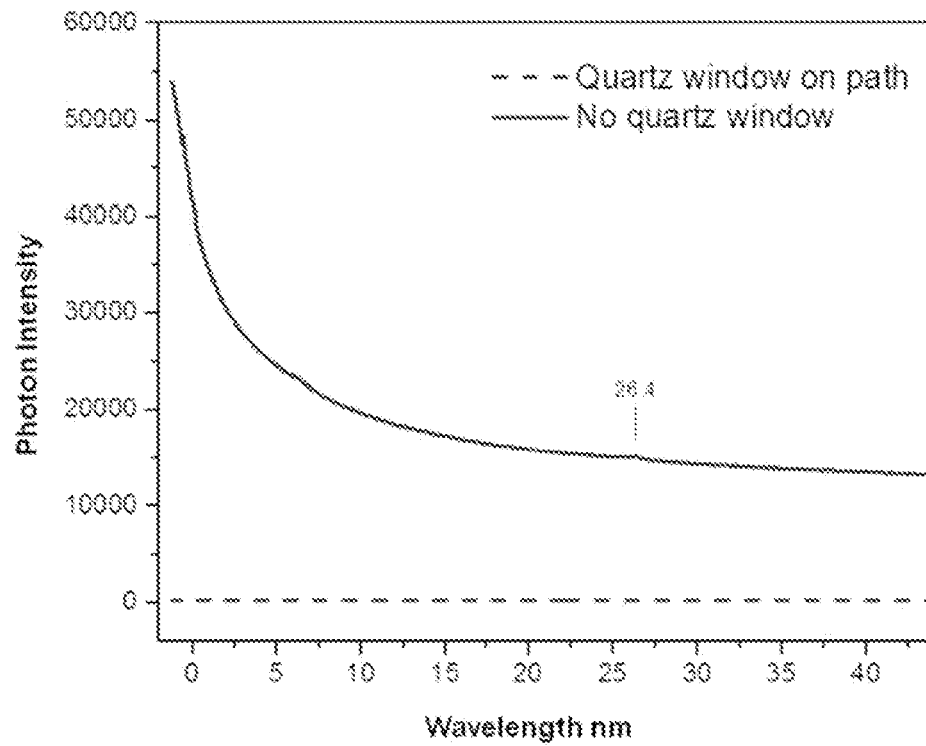


Fig. 34

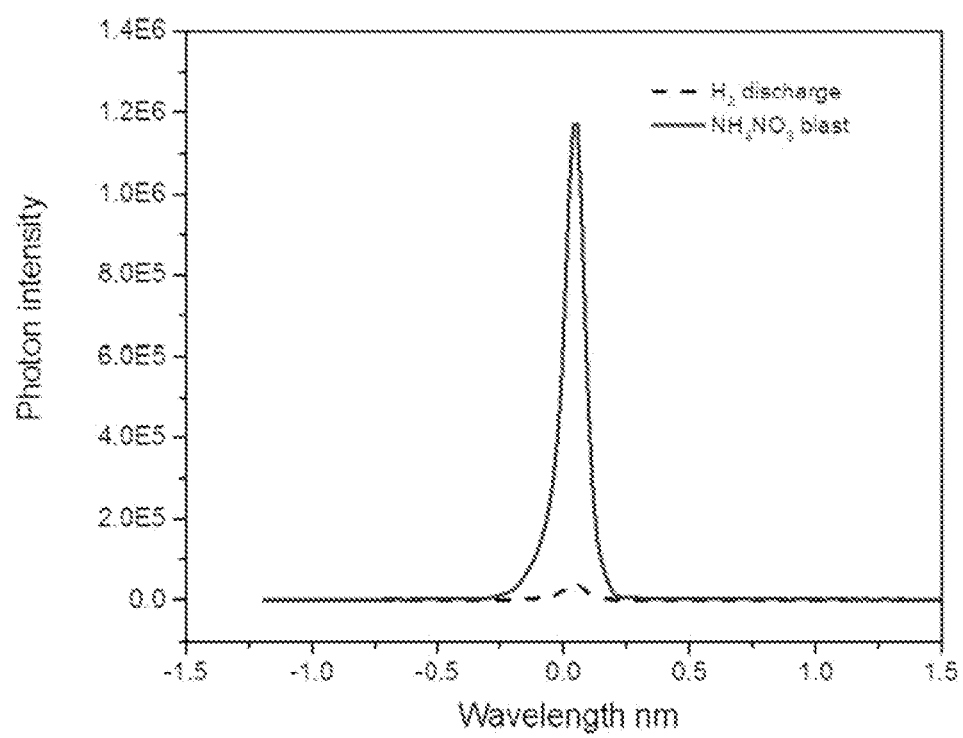


Fig. 35

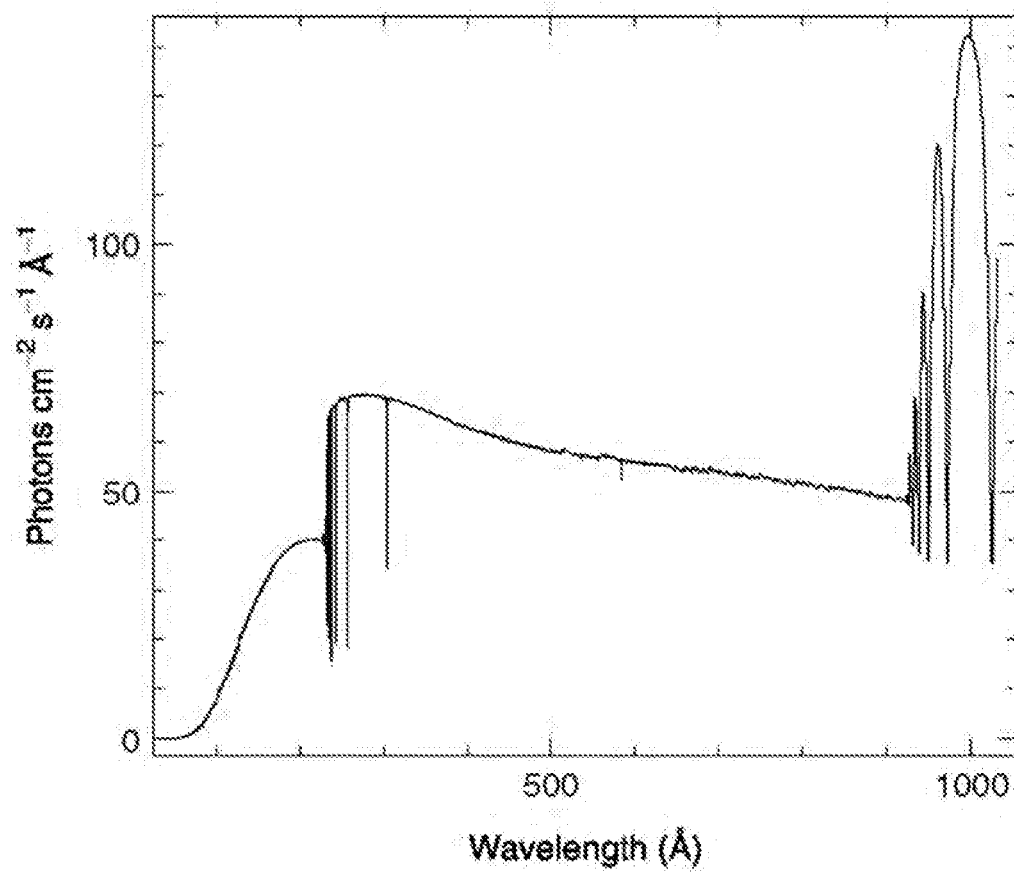


Fig. 36

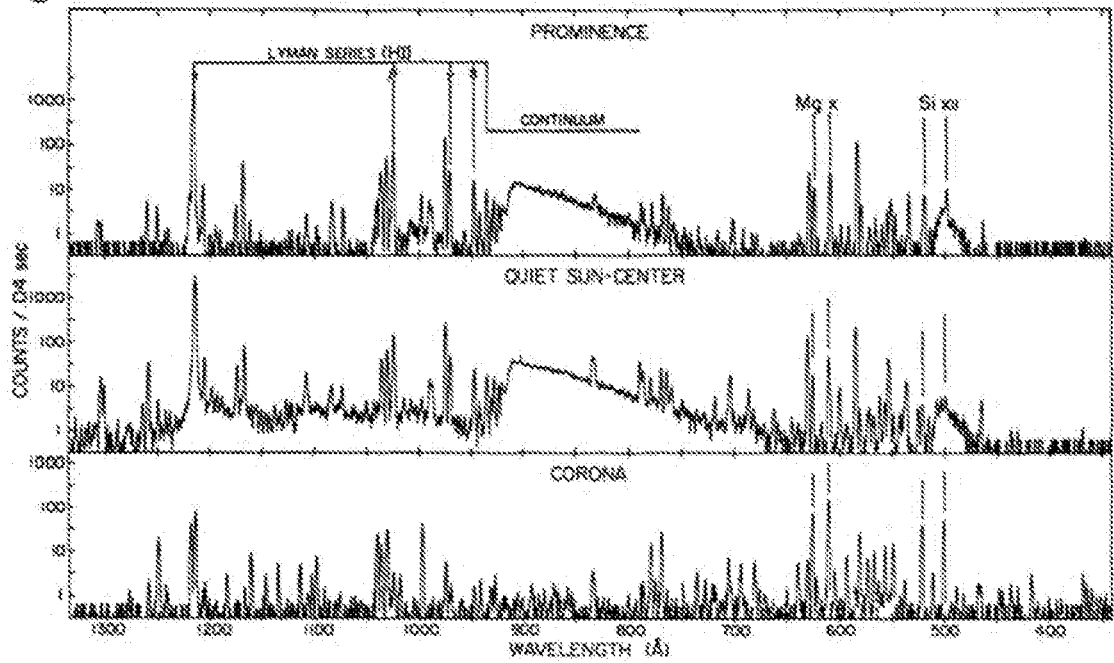


Fig. 37

