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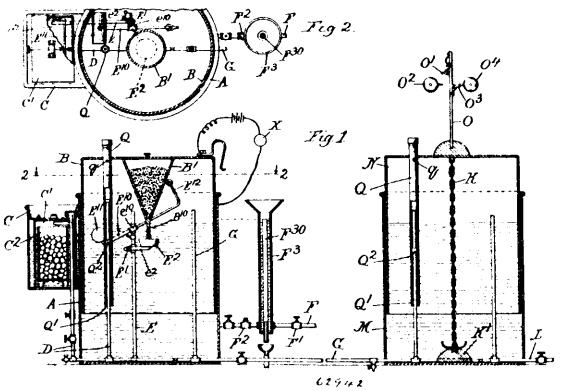
## INVENTIONS PATENTED.

**NOTE.—Patents are granted for 18 years. The term of years for which the fee has been paid, is given after the date of the patent.**

### No. 62,942. Acetylene Gas Generator.

(*Générateur de gaz acétylène.*)



The Reynolds Acetylene Gas Generator Company, Winnebago City, Minnesota, assignees of D. J. Reynolds of Winnebago aforesaid, 11th April, 1898; 6 years. (Filed 27th November, 1896.)

*Claim.*—1st. An expansible gas holder whose movable element decreases in interior cross section toward the top. 2nd. An expansible gas holder, whose movable element has an interior hollow tapering projection constituting a water displacer within the holder and an exterior pocket for weighing material. 3rd. In combination with an expansible gas holder, a gas generator having water and gas communication with the holder, and a displacer which is intruded into the water by the collapse of the holder. 4th. In combination, an expansible holder, a generator having water and gas communications with the holder, the water passage having the highest point above the low water level of the holder, and a displacer which is intruded into the water by the colapse of the holder, whereby the amount of water displaced by such intrusion, after the water level reaches said highest point, is caused to pass into the generator. 5th. In combination with a gas holder and a generator from which it is supplied with gas, a water passage between the two, and a displacer in the holder which is intruded into the water by the collapse of the holder, and a valve in the water passage which is normally closed and which is opened by the collapse of the holder. 6th. In combination with a gas holder and a generator which supplies it with gas, the water passage between the two, a valve which controls said water passage, a displacer in the holder which is intruded in the water by the collapse of the holder and raises the water level and which simultaneously opens said valve. 7th. In combination, a gas holder and a generator which supplies it with gas, a water passage between the two, a stand-pipe communicating with the holder having an overflow at a level adapted to maintain the water in the holder immediately below the highest point of the water passage, and means for supplying water to the stand pipe, a displace which is intruded into the water of the holder by the collapse of the latter, and a check-valve in the stand-pipe preventing outflow therethrough from the holder. 8th. In combination, a gas holder and a generator which supplies it with gas, a water passage between the two, a dipper having communication with said water passage, and mechanism by which the moving element of the holder causes said dipper to turn water into the water passage as the holder collapses. 9th. In combination with an expansible gas holder, a generator which supplies it with gas, a dipper movable into and out of a body of liquid by the movement of the gas holder and a liquid conduit from the dipper to the generator. 10th. In combination, a gas holder and a generator which supplies it with gas, a liquid passage between the two, a dipper movable into and out of liquid in the holder having a holder stem by which it is pivotally connected to the liquid passage, and mechanism by which the movement of the holder oscillates the dipper to cause it to take liquid from the holder and turn it into the liquid passage leading to the generator, 11th. In combination, a gas holder and a generator which supplies it with gas, a liquid passage between the two, a dipper having a hollow stem pivotally connected to the liquid passage and having a lever arm adapted to be encountered by the moving element of the latter whereby the movement of the latter oscillates the dipper to cause it to turn liquid into the passage to the generator. 12th. In combination, a gas holder and a generator which supplies it, a water passagebetween the two, a displacer which is intruded into the water in the holder, by the collapse of the latter to cause water to pass into the generator, and a dipper communicating with such water passage and adapted to be elevated above the highest point in the latter by the collapse of the holder beyond a predetermined point, whereby such dipper causes water to pass into the generator after the water level has been too far lowered for the displacer to do so. 13th. In combination with a gas generator, a gas holder which receives the gas from the generator, and a second holder which receives it from the first, the second holder being normally restrained to less pressure than the first and supplemental restraint arranged to be encountered by the second holder as it expands. 14th. In combination with a gas generator and a primary and a secondary gas holder, the second holder being normally restrained to less pressure than the first and being provided with a weight which constitutes a supplemental restraint, which, when operative, restrains the secondary holder in excess of the primary, said weight being connected to the moving element by a chain adapted to be deposited at its lower end when the weight lodges. 15th. In combination with the gas generator, a primary and a secondary holder communicating in order therewith, the secondary holder being normally restrained to less pressure than the first and a supplemental restraint arranged to be encountered as the holder expands, to increase its pressure beyond that of the first, and an alarm adapted to be actuated as said secondary holder descends. 16th. In combination with a gas generator, a primary and a secondary holder communicating in order therewith, the second holder being normally restrained to less pressure than the first, and a supplemental restraint which the second holder encounters as it expands