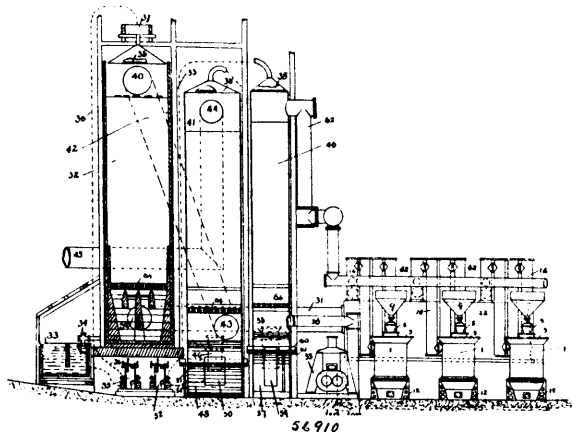
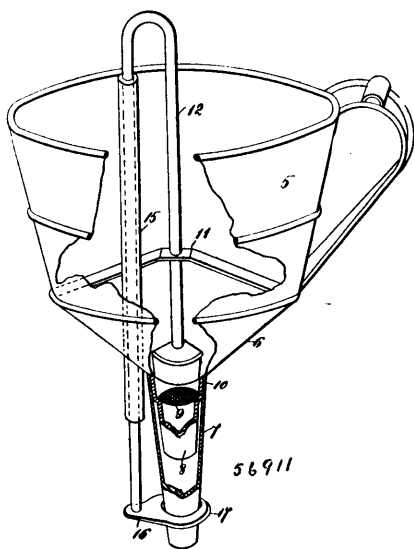


metallic casing, a mechanical washer for washing the said gases, an acid scrubber for absorbing the ammonia, a cold water scrubber where



the heat of the gases is transmitted to water, and a further scrubber where the heat of the water obtained from the previous scrubber is transmitted to the air used for combustion and this air loaded with steam substantially as described. 4th. In combination with a gas producer and heat transmitting device for transmitting the heat of the effluent gases to air and steam for generating those gases, a hot water washer for washing these gases, substantially as described. 5th. In connection with a gas producer, the combination of a washing device for thoroughly washing the effluent gases with hot water and a weak acid scrubber beyond the same, for the absorption of ammonia substantially as described. 6th. In combination with a producer gas plant, a washer having a water seal, a rotary stirrer and means for fishing out the impurities through the water seal, substantially as described.

No. 56,911. Funnel. (Entonnoir.)

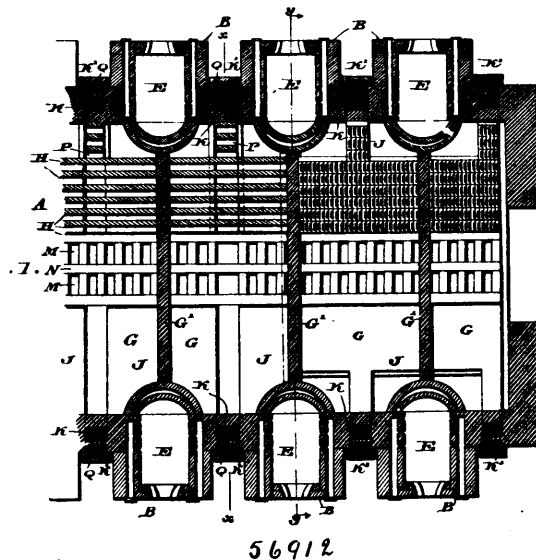


Anson Fleming Borland, Winnipeg, Manitoba, Canada, 5th August, 1897; 6 years. (Filed 28th May, 1897.)

Claim.—1st. A funnel of the usual form, provided with a discharge spout, the upper end of which is adapted to be closed by a vertically movable valve, a vertically movable rod mounted in said funnel, and provided with a valve, and at its upper end with an arm which is connected therewith, and which extends downwardly parallel therewith, and which passes through a vertical tube secured in the funnel, and which projects through the bottom thereof, said arm being provided at its lower end with an attachment which is adapted to strike the neck of the bottle or other vessel to be filled when the discharge spout of the funnel is inserted therein, substantially as shown and described. 2nd. A funnel of the usual form, and provided with a discharge spout, the upper end of which is adapted to be closed by a vertically movable valve, a vertically movable rod mounted in said funnel, and provided with a valve, and at its upper end with an arm which is connected therewith, and which extends downwardly parallel therewith, and which passes

through a vertical tube secured in the funnel, and which projects through the bottom thereof, said arm being provided at its lower end with an attachment which is adapted to strike the hook of the bottle or other vessel to be filled when the discharge spout of the funnel is inserted therein, said spout being also provided at its upper end with a detachable tube, in which is placed a screen or strainer, and the upper end of which fits within said spout, and is adapted to be closed by the valve, substantially as shown and described. 3rd. A funnel of the usual form, and provided with a discharge spout, the upper end of which is adapted to be closed by a vertically movable valve, a vertically movable rod mounted in said funnel, and provided with a valve, and at its upper end with an arm which is connected therewith, and which extends downwardly parallel therewith, and which passes through a vertical tube secured in the funnel, and which projects through the bottom thereof, said arm being provided at its lower end with an attachment, which is adapted to strike the neck of the bottle or vessel to be filled when the discharge spout of the funnel is inserted therein, said spout being also provided at its upper end with a detachable tube, in which is placed a screen or strainer, and the upper end of which fits within said spout, and is adapted to be closed by said valve, said valve rod being passed through and vertically movable in a cross bar or plate arranged within said funnel, substantially as shown and described.

No. 56,912. Brick Kiln. (Four à briques.)



Milton Morton Bushong and Franklin Fenton Bushong, both of Pawling, Pennsylvania, U.S.A., 5th August, 1897; 6 years. (Filed 17th July, 1897.)

Claim.—1st. In a brick kiln, an interior compartment, fire-chambers therefor, passages leading to said compartment from said fire-chambers, a plurality of longitudinal channels extending throughout the length of the kiln, apertured plates supported over said channels, a series of laterally-extending flues located oppositely to each other, and leading from said channels to stacks on either side of the kiln, perforated base slabs on either side said channels, and other laterally-extending flues located oppositely to each other, and in communication with the perforations in said slabs, each of the above flues being arranged at intervals throughout the length of the kiln, and having suitable outlets leading to the atmosphere. 2nd. A brick kiln having an interior compartment, fire-chambers having passages leading thereto, the longitudinally-extending channels M M, in the base of said compartment, the dividing wall N between the same, perforated plates supported above said passages M, the stacks K¹, the laterally-extending oppositely-located passages P leading thereto from said channels, the perforated base slabs H on either side of said passages M, the laterally-extending oppositely-located passages J in communication with the openings in said slabs and leading to said stacks, said passages J and P being arranged at intervals throughout the length of the furnace.

No. 56,913. Lantern. (Lanterne.)

John Thomas Casey, Chester, Pennsylvania, U.S.A., 5th August, 1897; 6 years. (Filed 28th May, 1897.)

Claim.—1st. In a lantern, a body portion, an oil-cup sustained within the body portion, a casing comprising two parts, each of which is perforated, a said casing embracing the upper portion of the oil-cup, a burner, a stationery shade held with its lower end in engagement with the upper part of the casing, and a movable shade capable of being raised out of the body portion to embrace the burner, the movable shade being capable of alternately inclosing the two parts of the casing which have the perforations, substantially as described. 2nd. In a lantern, a body portion, a ring hinged on the