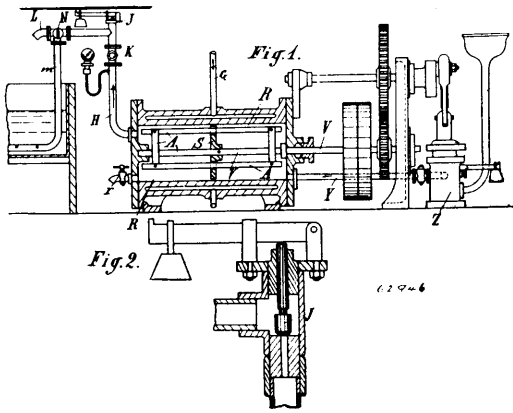


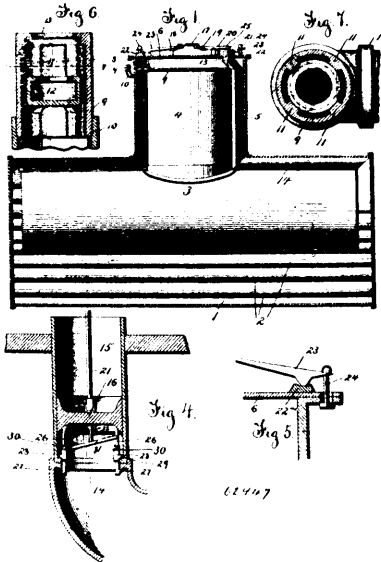
**No. 62,946. Size Manufacturing Apparatus.**  
(*Procédé pour la fabrication de la colle*)



August Stephen, Breitenbach, Alsatia, 11th April, 1899; 6 years.  
(Filed 19th September, 1898.)

*Claim.*—1st. An apparatus for manufacturing size, comprising a cylinder into which the mass is adapted to be pressed, means for heating said cylinder, a stirring device arranged in the cylinder and adapted to move the mass axially through the cylinder, and means forming a passage for the mass at the exit end of the cylinder, whereby the mass leaves the exit end of the cylinder in a finished condition and a continuous production of the size is thereby obtained. 2nd. An apparatus for manufacturing size, comprising a cylinder, a stirring device arranged in said cylinder and embodying an axle, and one or more discs mounted on said axle and arranged in the cylinder so that a space exists between the disc and the wall of the cylinder, whereby the mass is passed from one compartment of the cylinder through the space between the disc and the wall of the cylinder into the compartment at the other side of the disc.

**No. 62,947. Steam Boiler.** (*Chaudière à vapeur.*)



Percy Avery, Mount Forest, Ontario, Canada, 11th April, 1899; 6 years. (Filed 11th November, 1898.)

*Claim.*—1st. A boiler comprising an outer boiler, an inner boiler, a valved port between said boilers, and means for introducing air to said boilers when condensation of the contents has set in, substantially as described. 2nd. A boiler comprising an outer boiler, an inner boiler, a valved port between said boilers, and means automatically operated for introducing air to said boilers when condensation of the contents has set in, substantially as described. 3rd. A boiler comprising an outer boiler, an inner boiler, a valved port between said boilers, and a valve connected to said boilers for introducing air to said boilers when condensation of the contents of said boilers has set in, substantially as described. 4th. A valve for aiding condensation in boilers, comprising a casing, guides located therein, stops formed on said guides, a valved seat located at one end of said casing, and a valve having an open chamber, located in said casing and adapted to be moved along said guides, substantially as described. 5th. A boiler comprising an outer boiler, an inner

boiler located within said outer boiler, a flange located on said inner boiler, adapted to fit the space between said inner boiler and said outer boiler, and a valved port, adapted to be actuated in one direction, located in said flange, substantially as described. 6th. A boiler comprising an outer boiler, an inner boiler, a valved communicating port between said boilers, and means for detaching a portion of said boiler when the pressure in said boiler is suddenly reduced, substantially as described. 7th. A boiler comprising an outer boiler, an inner boiler, a valved communicating port between said boilers, and means for automatically detaching a portion of said boiler when the pressure in said boiler is suddenly reduced, substantially as described. 8th. A boiler comprising an outer boiler, an inner boiler, a valved communicating port between said boilers, and means for detaching a portion of said boiler, said means being operated by the sudden reduction of pressure in the contents of said boiler, substantially as described. 9th. A boiler comprising an outer boiler having a dome, an inner boiler mounted in said outer boiler, a flanged extension from said inner to said outer boiler closing communication between said boilers, a valved port located in said flange, a top removably connected to said dome, means for removably securing said top to said dome, and means operated by the sudden reduction of pressure in the contents of said boiler for releasing said top securing means, substantially as described. 10th. A boiler comprising an outer boiler having a dome, an inner boiler mounted in said outer boiler, a flange extension from said inner to said outer boiler, closing communication between said boilers, a valved port located in said flange, a top removably connected to said dome, bolts connecting said top to said dome, said bolts being arranged to allow of the passage of said top therefrom, levers pivotally mounted on said dome for holding said top in contact with said dome, a plate pivotally mounted on said dome and adapted to normally hold said levers in their operative position, a tripping mechanism adapted to hold said plate in an operative position, and means operated by the sudden reduction of pressure in the contents of said boiler for releasing said mechanism, substantially as described. 11th. A boiler comprising an outer boiler having a dome, an inner boiler mounted in said outer boiler, a flanged extension from said inner to said outer boiler, closing communications between said boilers, a valved port located in said flange, a top removably connected to said dome, bolts connecting said top to said dome, said bolts being arranged to allow of the passage of said top therefrom, levers pivotally mounted on said dome for holding said top in contact with said dome, a plate pivotally mounted on said dome and adapted to normally hold said levers in their operative position, a tripping mechanism adapted to hold said plate in an operative position, a lever pivotally mounted on said top and adapted to hold said plate in its operative position, a tube leading from said outer boiler to said top, a piston mounted in said tube, and connections between said piston and said lever whereby sudden reduction of pressure in the contents of said boiler will serve to operate said piston, substantially as described. 12th. A boiler comprising an outer boiler having a dome, an inner boiler mounted in said outer boiler, a flanged extension from said inner to said outer boiler, closing communication between said boilers, a valved port located in said flange, a top removably connected to said dome, bolts connecting said top to said dome, said bolts being arranged to allow of the passage of said top therefrom, levers pivotally mounted on said dome and adapted to normally hold said levers in their operative position, a tripping mechanism adapted to hold said plate in an operative position, a lever pivotally mounted on said top and adapted to normally hold said plate in its operative position, a tube leading from said outer boiler to said top piston mounted in said tube, connections between said piston and said lever whereby sudden reduction of pressure in the contents of said boiler will serve to operate said piston, for automatically releasing a portion of said tube, substantially as described. 13th. A boiler comprising an outer boiler having a dome, an inner boiler mounted in said outer boiler, a flanged extension from said inner to said outer boiler, closing communication between said boilers, a valved port located in said flange a top removably connected to said dome, bolts connecting said top to said dome, said bolts being arranged to allow of the passage of said top therefrom, levers pivotally mounted on said dome, for holding said top in contact with said dome, a plate pivotally mounted on said dome and adapted to normally hold said levers in their operative position, a tripping mechanism adapted to hold said plate in an operative position, a lever pivotally mounted on said top and adapted to normally hold said plate in its operative position, a tube leading from said outer boiler to said top, a piston mounted in said tube, connects between said piston and said lever whereby sudden reduction of pressure in the contents of said boiler will serve to operate said piston, clamping jaws for normally connecting the portions of said tube, and means operated by the movement of said piston for detaining said clamping jaws, whereby the upper portion of said tube will be automatically released, substantially as described.

**No. 62,948. Support for Electric Lamps.**  
(*Support pour lampes électriques.*)

Otis C. White, Worcester, Massachusetts, U.S.A., 11th April, 1899; 6 years. (Filed 3rd February, 1899.)

*Claim.*—1st. The combination of a support, a pipe pivotally connected thereto, a ball secured to the end of said pipe, an electric