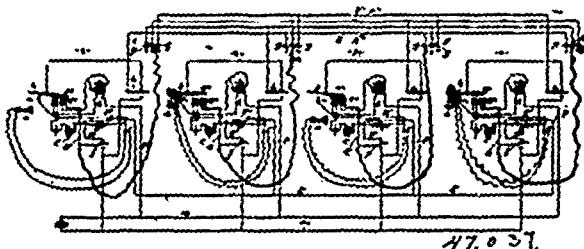


pipe in the still connected with the expansion coil, substantially as described. 39th. The combination of a still and eduction pipe connected with the first of a series of communicating drums, and a perpendicular pipe connected with the last of said drums and with a condenser, substantially as described. 40th. In an evaporating apparatus, the combination of a still and eduction pipe connected with the first of a series of communicating drums, pipes communicating between said drums and the still, and a perpendicular pipe connected with the last of said drums and with a condenser, substantially as described. 41st. In an evaporating apparatus, the combination of a still, a catch-all drum or drums connected therewith, a condenser 114 connected with said catch-all drum or drums, a receiving tank 116 connected with said condenser, and a vacuum pump connected with said receiving tank, substantially as described. 42nd. In an evaporating apparatus, the combination of a still, a heater and expansion coil in the heater, a coil in the still, a steam pipe connected with the coil of the still, the expansion coil of the heater and the space in the heater surrounding the expansion coil, a perforated pipe in the still connected with the expansion coil, an eduction pipe connected with the first of a series of communicating drums, a perpendicular pipe connected with the last of said drums and with a condenser, and a vacuum pump connected with said condenser, substantially as described. 43rd. In an evaporating apparatus, the combination of a still, catch all drums 69 and 70 connected together and with said still, a pipe 105 from each of said catch-all drums, a pipe 105 connecting said pipes 105 and communicating with the still, a pipe 105 connected with the pipe 105, a condenser 114 connected with the catch-all drum 70, a receiving tank 116 connected with the condenser 114, and a vacuum pump connected with said receiving tank, substantially as described. 44th. In an evaporating apparatus, the combination of the standards 68, the braces 71 at the tops of said standards, the heater 66, still 67, and catch-all drums 69 and 70 supported by said braces, the condenser 114, connected with the catch-all drum 70, the receiving tank 116 connected with the condenser 114, and a vacuum pump connected with said receiving tank, substantially as described. 45th. As an improvement in vacuum concentrating apparatus, the combination of a concentrator and eduction pipe leading into a chamber, a perpendicular pipe in said chamber open at its upper end and a pipe connecting said chamber with the concentrator, substantially as described. 46th. As an improvement in vacuum concentrating apparatus, the combination of two concentrators communicating with a common catch-all and a pipe establishing a communication between said catch-all and one of said concentrators, substantially as described. 47th. As an improvement in vacuum concentrating apparatus, the combination of a dash plate in the upper part of a still, an opening therein, of a circular imperforate dash plate located below or above and opposite the opening in the large dash plate, substantially as described. 48th. As an improvement in vacuum evaporators, the combination of an evaporator body, the annular dash plate in the upper part thereof, a circular dash plate located above or beneath the annular dash plate, an eduction pipe from said evaporator body connected with a chamber and a perpendicular pipe in said chamber with its upper open end located above the level of the eduction pipe and communicating with a vacuum pump, substantially as described. 49th. An improved dash plate for use in vacuum evaporators or similar chambers, in which liquids or fusible solids are heated, comprising an annular dash plate within the chamber and an imperforate dash plate supported above or below the annular dash plate, and in line with the opening therein, substantially as described.

No. 47,037. Warehouse Telephone System.

(Système de téléphone pour magasins.)



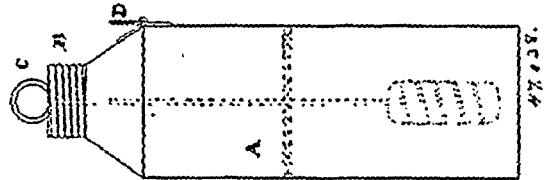
The Bell Telephone Company of Canada, assignee of Frank Allen Field, both of Montreal, Quebec, Canada, 13th September, 1894; 6 years.

Claim.—1st. A warehouse telephone system comprising a number of stations containing the usual telephone apparatus, line connecting and calling mechanisms, with battery circuit and connecting lines allowing of an exclusive connection between any two stations, as and for the purpose set forth. 2nd. A warehouse telephone system comprising a number of stations, each of which contains the usual telephone apparatus, a plug and calling key, a socket or jack for each station that may be called, a return wire and an extra key whereby the station called may send a return signal, with battery circuit and line connections, as and for the purpose set forth. 3rd.

A warehouse telephone system comprising a number of stations, each of which contains the usual telephone apparatus, with an additional set of contacts under control of an insulated connecting pin carried by the telephone hook, a plug and calling key, a socket or jack for each station that may be called, a special return wire and an extra key whereby the station called may send a return signal, with battery circuit and line connections, as and for the purpose set forth.

No. 47,038. Fire Lighter.

(Appareil pour allumer le feu.)

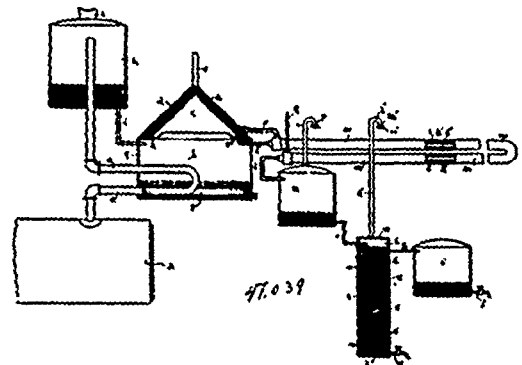


John Robert Carle, and Wellington Le Baron Hamm, both of St. John, New Brunswick, Canada, 13th September, 1894; 6 years.

Claim.—1st. A fire lighter for kindling fuel, comprising a shaft or stem E, having an eye or suitable termination C, at one end and at the other end a swab F, of asbestos or other capillary non-combustible material, bound thereto by a wire G, coiled spirally, substantially as set forth. 2nd. The combination with a cap A, having a screw cap or stopper B, and handle or loop D, of the shaft or stem E, passing through said cap and provided at one end with an eye or knob C, and having at the other end a swab F, of asbestos or other capillary material bound to said stem by an exterior wire G, spirally wound, as set forth.

No. 47,039. Water Distilling Apparatus.

(Appareil à distiller l'eau.)



Edward C. Hargrave, Bay City, Michigan, U.S.A., 13th September, 1894; 6 years.

Claim.—1st. The combination in a distilling apparatus, of the boiler, a condensing chamber having an opening to the atmosphere, and a steam pipe leading from the boiler to the condensing chamber, and provided with a series of coils or bends, with a closed evaporating chamber, enclosing the said coils or bends of the steam pipe, and provided with a conical roof having its outer surface covered with a water space, and provided at the base of the inner side of the roof with an angular drip trough, a pipe passing through the walls of the chamber, and connected to the drip trough, and a pipe for conducting water from the condensing chamber to the said evaporating chamber, substantially as set forth. 2nd. In a water distilling apparatus, the combination with the boiler, a condensing chamber open to the atmosphere, and evaporating chamber closed to the atmosphere, and provided with condensing surfaces, of a steam pipe leading from the boiler through the said evaporating chamber to the said condensing chamber, and provided on the portion within the evaporating chamber with coils or bends, and a pipe for conducting water from the condensing chamber to the evaporating chamber, substantially as set forth. 3rd. In a water distilling and aerating apparatus, the combination with devices for distilling water, of the aerating tanks connected by pipes to the said distilling devices, and provided with a filling of crushed or pulverized charcoal charged with purified air as described, substantially as set forth. 4th. In a water distilling and aerating apparatus, the combination of the devices for distilling water enclosed from air contact, and an aerating tank having as described a filling of pulverized or crushed charcoal charged with purified atmospheric air, and a pipe for conducting the water from the distilling apparatus to the aerating tank, and means for cooling the water within the pipes, substantially as set forth. 5th. The combination with the water distilling devices and aerator containing charcoal charged as