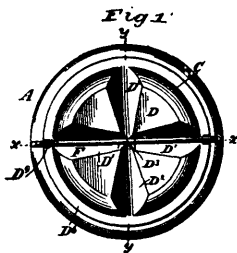


electric conductors extending along the track, each member of each series being insulated from adjacent members and from surrounding objects, circuit closing mechanism including a battery and a signal carried by a vehicle adapted to move along the track, and a second circuit closer adapted to complete circuit through the corresponding conductors of the two series when the circuit closers are within a pre-determined distance of each other, substantially as set forth. 3th. In combination, two series of electric conductors, trolley wheels in electrical contact, one with each series, a circuit comprising a battery and a signal, and forming an electrical connection between the trolley wheels, and a second circuit closing device to complete circuit through the corresponding conductors of two series, substantially as set forth. 5th. In combination, the series of electric conductors, the trolley wheels normally in contact with the conductors, the electric connections between the trolley wheels, including a battery, a second set of trolley wheels and means for moving them into and out of engagement with the conductors, substantially as set forth. 6th. In combination, the series of electric conductors, the rocking supports for the adjacent ends of the conductors, means for holding the supports under tension tending to rock them toward each other, and a circuit closer located between the rocking supports, of two adjacent ends in position to be forced by one of the supports against the other when the tension of the conductor is released, substantially as set forth.

No. 42,811. Jar Cover and Clamp.

(Couvercle et lien pour jarres.)



Frank H. Palmer, Brooklyn, New York, U.S.A., 3rd May, 1893; 6 years.

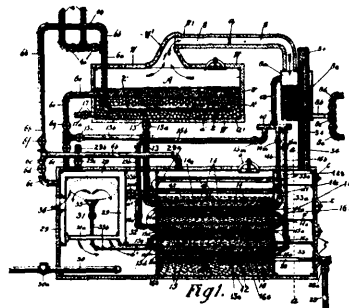
Claim—1st. The combination with a jar or can, of a cover engaging the mouth of the jar and carrying a packing ring or disc adapted to be seated on the edge of the said jar or cover, and a bail secured at its middle in a diametrical groove in the top of the said cover, the bail being provided with downwardly extending arms carrying inwardly projecting lugs adapted to engage the bottom of an annular projection formed on the outside of the said jar, substantially as shown and described. 2nd. A jar cover having an annular depending flange D^5 , and an annular horizontal flange D^6 , projecting outward from the flange D^5 , bent downward and inward at its periphery to form a packing groove, substantially as set forth. 3rd. A jar cover having an annular depending flange D^5 , an annular horizontal flange D^6 , projecting outward from the flange D^5 and bent downward and inward at its periphery to form a groove to support a packing ring near its outer edge, and the double up portion D^3 at the juncture of the two said flanges D^5 , D^6 , to support the packing near its inner edge, substantially as set forth. 4th. A jar cover grooved transversely across its top and formed with the vertical and horizontal flanges D^5 , D^6 , the periphery of the flange D^6 being bent downward and inward to form a groove to receive the outer edge of a packing ring, and notches D^9 in the outer edge of flange D^6 , substantially as set forth. 5th. A jar cover grooved transversely across its top and formed with the vertical and horizontal flanges D^5 , D^6 , the latter being turned under at its periphery to form a groove, a flat packing ring under the flange D^6 and supported at its outer edge in said groove, the notches D^9 , and the fastening F , extending through said groove and having depending ends extending through said notches and turned inward, as at F^4 , at their lower ends, substantially as set forth. 6th. The combination, with a jar or can provided with two external annular projections located one above the other, of a cover adapted to close the mouth of the jar and formed an annular flange, a packing ring held on the under side of the cover flange by a doubled up edge of the latter, the said ring being arranged to seat itself on the uppermost of said projections of the jar or can, and a bail held on the said cover and formed with downward parts or arms and lugs, the said parts extending through grooves in the lowermost projection of the jar or can, and the said lugs being adapted to engage the bottom of the said lowermost projection, substantially as shown and described.

No. 42,812. Process of and Apparatus for Deodorizing Oils. (Procédé et appareil pour désinfecter l'huile.)

Robert H. Laird, Toronto, Ontario, Canada, 3rd May, 1893; 6 years.

Claim—1st. The herein described process of distilling oil, which consists in first introducing the crude oil to be treated into a vaporizer, then introducing steam at a temperature of substantially 212

degrees to said vaporizer, whereby the alcoholic series of vapors are generated, then withdrawing said vapors, then introducing super-



heated steam to said vaporizer, whereby the oleic series of vapors are generated, and then withdrawing said vapors, substantially as set forth. 2nd. In an apparatus for distilling oil, the combination with a boiler, a series of flues therein, a tubular oil chamber surrounding each of several of said flues, an inlet and an outlet for each of said oil chambers, a pipe affording communication between the steam space of the boiler and the inlet of said oil chambers, a receptacle outside the boiler, and a pipe communicating between said receptacle and said oil chambers, substantially as set forth. 3rd. In an apparatus for refining oil, the combination of a boiler, a flue formed therein, a tubular oil chamber surrounding said flues, said chamber having an inlet and an outlet, a pipe affording communication between the steam space of the boiler and the inlet of said oil chamber, and a packing of refractory material within the oil chamber adapted to break the density of the crude oil, substantially as described. 4th. In an apparatus for distilling oil, the combination, of a receptacle, an inlet and an outlet to said receptacle, a boiler, a series of flues therein, a tubular oil chamber surrounding each of several of said flues, a pipe communicating between said receptacle and said oil chambers, an inlet and an outlet to each of said oil chambers, a filter and pipes communicating between the filter and the receptacle and the oil chamber, substantially as described. 5th. An apparatus for distilling oil, consisting of a receptacle for the oil to be treated provided with an outlet, a condenser, a pipe connecting said condenser with the outlet of the receptacle, and a perforated oil inlet pipe arranged in said receptacle, and having an internal packing of refractory material, substantially as set forth. 6th. In an apparatus for distilling oil, a receptacle for the oil to be treated, an inlet for said receptacle, a boiler, a pipe connecting the inlet to the receptacle with the steam space of the said boiler, a filter, a pipe communicating between said receptacle and filter, said filter containing slacked lime, substantially as set forth. 7th. In an apparatus for distilling oil, a receptacle for the oil to be treated, an inlet for said receptacle, a boiler, a pipe connecting the inlet to the receptacle with the steam space of the said boiler, a filter, a pipe communicating between said filter and said receptacle, said filter containing slacked lime, and means for supplying heat to said filter, substantially as set forth. 8th. In an apparatus for distilling oil, the combination with a receptacle for the oil to be treated, a perforated oil inlet pipe arranged in said receptacle, and having an internal packing of refractory material, a boiler, a pipe connecting said oil inlet pipe with the steam space of the boiler, a condenser and a pipe connecting said receptacle with the condenser, substantially as set forth. 9th. In an apparatus for distilling oil, the combination of a receptacle for the oil to be treated, a dome to said receptacle, a substantially U-shaped perforated pipe within said receptacle, a boiler, a pipe connecting said U-shaped pipe with the steam space of said boiler, an inlet for the oil to said U-shaped pipe, a filter, a pipe forming a communication between said dome and said filter, a series of flues within said boiler, a tubular oil chamber surrounding each of several of said flues, means for feeding the oil from the said receptacle to the said oil chambers, means for heating said oil chambers and means for conducting away the oleic vapors as they are generated, substantially as described. 10th. In an apparatus for distilling oil consisting of a shell or casing having partitions forming a central water space of boiler therein and fire spaces or combustion chambers at the ends thereof, a series of flues passing through said water space and affording communication between the combustion chambers, partitions in said combustion chambers between the ends of alternate pairs of flues whereby a zigzag passage is formed for the products of combustion through said water space, a tubular oil chamber surrounding each of several of said flues, an inlet and an outlet to each of said oil chambers, pipes affording communication between the inlets and the outlets of alternate pairs of said chambers whereby a zigzag passage for the oil is formed through said boiler valves in said pipes, and a pipe connecting the steam space of said boiler with the inlet of said oil chamber, substantially as described. 11th. In an apparatus for distilling oil consisting of a shell or casing having partitions forming a central water space or boiler therein and fire spaces or combustion chambers at the ends thereof, a series of flues passed through said water space and affording communication between the combustion chambers, partitions in said combustion chambers between the ends of alternate pairs of flues whereby a zigzag passage is formed for the products