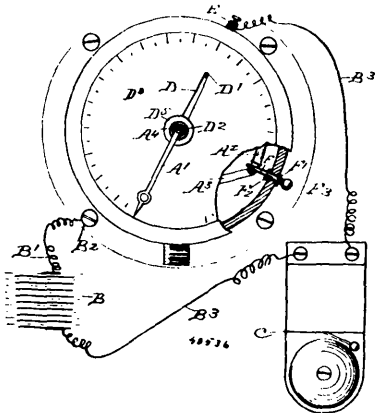
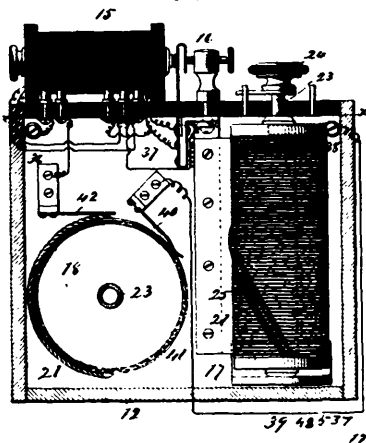


movement of the index operating mechanism, of a lever fulcrumed upon the case wall of the gauge and engageable with the index operat-



ing mechanism interiorly of the case, and an operating handle on the lever projecting exteriorly of the case, substantially as described.

**No. 48,527. Apparatus for Applying Electricity to Medical and Surgical Uses.** (*Appareil pour appliquer l'électricité à l'usage de la médecine et de la chirurgie.*)



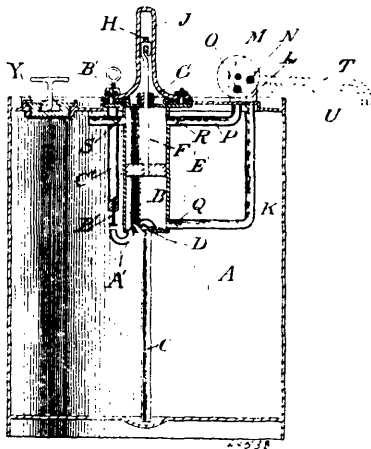
Henry C. Porter, Chicago, Illinois, U.S.A., 26th March, 1895; 6 years.

*Claim.* 1st. In an apparatus for applying electricity to medical and surgical uses, the combination with a source of current generation of a plurality of current regulators each of which is adapted to be included in circuit with the source of generation, and each one of which is arranged in a circuit independent of the other, with an induction coil included in circuit with one of the current regulators, and which induction coil is independent of the other current regulator whereby in one and the same apparatus either a high tension or low tension current may be interchangeably employed, and each regulated as desired. 2nd. In an apparatus for applying electricity to medical and surgical uses, the combination with a source of current generation of a plurality of current regulators each of which is adapted to be included in circuit with the source of generation of the other, an induction coil included in circuit with one of the current regulators which induction coil is independent of the other current regulator whereby in one and the same apparatus either a high tension or a low tension current may be interchangeably employed and each regulated as desired together with a contact breaker for the induction coil and means for regulating the rapidity of vibration of said contact breaker. 3rd. In an apparatus for applying electricity

to medical and surgical uses the combination of the source of current generation, a current regulator or rheostat, an induction coil in circuit with said current regulator adapted to transform the current into a high tension current, which is regulated by the current regulator aforesaid, and another current regulator arranged in a circuit independent of the first mentioned current regulator and the induction coil.

**No. 48,528. Oil Can and Filler.**

(*Bidon à huile et appareil à remplir.*)



Edwin Webster Luce, Meadville, Pennsylvania, U.S.A., 26th March, 1895; 6 years.

*Claim.* 1st. The combination with a fluid reservoir, of a pump for discharging the contents thereof into a receiving vessel, said pump comprising a cylinder, a suction pipe extending down into the reservoir, a discharge pipe leading to the receiving vessel, an inlet pipe leading from the receiving vessel back to the pump cylinder, and an outlet between the cylinder and the interior of the reservoir, substantially as described. 2nd. The combination with the fluid reservoir, of a pump for discharging the contents thereof into a receiving vessel, said pump comprising a cylinder, a solid piston, a suction pipe connected with the cylinder and extending down into the reservoir, a discharging pipe leading from the cylinder on one side of the piston to the receiving vessel, an air inlet pipe leading back from the receiving vessel to the cylinder on the other side of the piston, and an air outlet from the cylinder to the reservoir on the same side of the piston as the air inlet, substantially as described. 3rd. The combination with a fluid reservoir, of a pump cylinder inclosed within the reservoir, a solid piston working in said cylinder, an inlet pipe leading from outside the reservoir into the pump cylinder, said pipe containing a valve opening inwardly toward the cylinder, and an outlet pipe leading from the cylinder to the interior of the reservoir, said outlet pipe containing a valve opening outwardly from the cylinder, substantially as described. 4th. The combination with a fluid reservoir, of a pump cylinder, a suction pipe extending from the cylinder down into the reservoir, a discharge pipe leading from the cylinder outside of the reservoir, an inlet pipe leading from the reservoir into the cylinder, an outlet between the cylinder and the interior of the reservoir, a separate pipe forming communication between the cylinder and the interior of the reservoir, a valve operatable from the outside of the reservoir for controlling a communication between the cylinder and the reservoir through said pipe, substantially as described. 5th. The combination with a fluid reservoir, of a pump cylinder inclosed within the reservoir, communication between the cylinder and reservoir controlled by a valve opening into the cylinder, a discharge pipe leading outside the reservoir and containing a valve opening outwardly from the cylinder, an air inlet pipe leading from outside the reservoir back to the cylinder and containing a valve opening inwardly toward the latter, and an outlet from the cylinder to the reservoir, said outlet being controlled by a valve opening outwardly from the cylinder, substantially as described. 6th. The combination with a fluid reservoir, of a pump cylinder inclosed within the same, a solid piston working in the cylinder, a communication between the cylinder and the reservoir controlled by a normally closed valve opening into the cylinder, a discharge pipe leading from the cylinder on one side on the piston to the outside of the reservoir and controlled by a normally closed valve opening away from the cylinder an outlet pipe leading outside the reservoir back to the cylinder on the other side of the piston and controlled by a normally