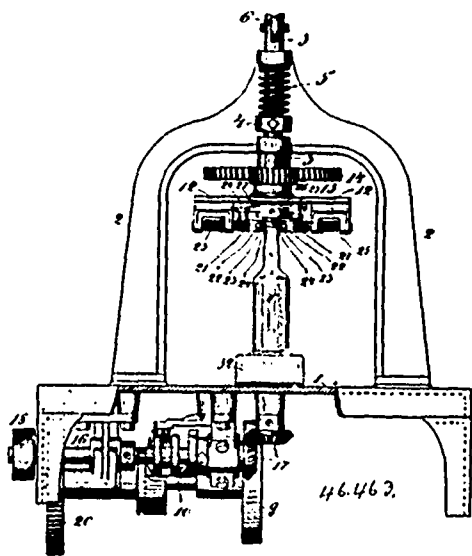


other or negative element carbon in the form of powder and coarse grains being retained in position around the outside of the porous cell by means of a wire gauze casing, the whole being constructed and arranged substantially as hereinbefore described. 3rd. Making the carbon element of galvanic batteries into a vessel for containing the electrolyte or exciting liquid of the battery, the exterior of which carbon vessel is left unvarnished or uncoated with any material which will destroy the porosity of the said carbon vessel, so that the hydrogen liberated at the inner surface of the said carbon vessel may combine with the oxygen of the air in the pores of the carbon and polarization be thereby prevented or largely diminished, substantially as hereinbefore described. 4th. Making the carbon element of such galvanic batteries as have the said carbon element wholly or mainly immersed in the electrolyte or exciting liquid of the battery, tubular or hollow, so that atmospheric air may have free access to the interior of the said tubular or hollow carbon, and by its oxygen prevent or reduce the polarization of the battery, substantially as described.

No. 46,463. Capping and Sealing Bottles.

(Appareil à couvrir et sceller les bouteilles.)



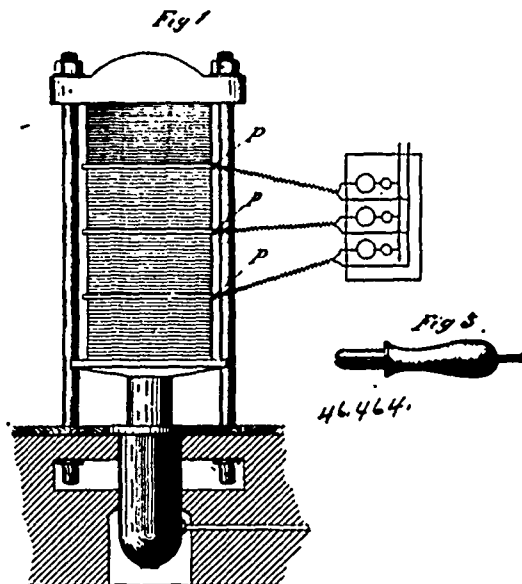
William Daniel Elger, assignee of Nathaniel B. Abbott, both of Brooklyn, New York, U.S.A., 3rd July, 1894; 6 years.

Claim.—1st. A closing or sealing cap for a bottle, comprising a cupped sheet metal cap having a cupped, adherent and smooth lining of comparatively thick paper, and a disc of cork fitting into said lined cap, the lining being interposed between the crown of the metal cap and said disc of cork, substantially as set forth. 2nd. A bottle having its neck gradually flared toward the mouth and provided with a closing device which comprises a disc of cork and a sheet-metal cap with a lining of paper or the like, the pendent, lined flange of the cap fitting smoothly about the tapered neck of the bottle and having in it numerous indentations, as set forth. 3rd. An apparatus or machine for applying a sheet metal sealing cap upon a bottle, comprising a base to support the bottle, means for holding the bottle stationary and the cap pressed down thereon, a rotating carrier adapted to move concentrically about the axis of the bottle, rollers or nurls mounted in said carrier and adapted to bear on the flange of the cap as they revolve, springs which keep said rollers pressed up the flange on the cap, and stationary cams which serve to press the rollers outwardly, radially, at each rotation of the carrier, substantially as set forth. 4th. An apparatus or machine for applying a sheet metal sealing cap upon a bottle, comprising a base to support the bottle, a plunger 3 arranged to press upon the cap and hold it down on the bottle, the spring 5 on the plunger, the rotating carrier provided with rollers or nurls for rolling down the flange of the cap, the springs behind the rollers, the cams 27, a lever 7 for raising the plunger 3, the cam and its rod for operating said lever, and gear intermediate said cam and the rotating carrier, whereby the withdrawal of the plunger is automatically effected when the rollers are withdrawn and the bottle thus released, substantially as set forth. 5th. The combination with the frame, the plunger 2 mounted in the frame, mechanism for imparting a reciprocating movement to said plunger at regular intervals, the rotating carrier mounted in the frame concentrically with said plunger, gearing connecting the carrier-rotating and plunger-operating mechanism, the rollers 24 mounted in sliding forks in the carrier, the said forks, the roller springs 25 the cams 27 arranged in different planes, and the rollers 28 on the said forks, and adapted to bear and roll on the respective cams 27 as the carrier rotates, substantially as set forth. 6th. In an apparatus for applying a sealing cap on a bottle, the combination with means for holding the cup down firmly in place on the bottle, of a rotating carrier, a fork 21

mounted in said carrier, a roller or nurl 24 carried by said fork, and a spring 25 which keeps the nurl pressed up toward the bottle-neck, said nurl being mounted on rocking bearings so that it will adapt itself to the surface of the bottle-neck, as set forth.

No. 46,464. Process of Calendering Goods of all Sorts.

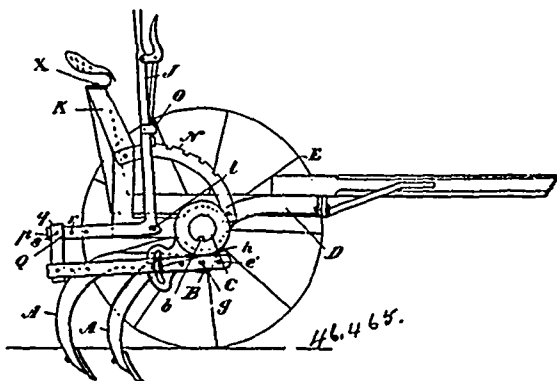
(Procédé de calandrage de marchandises de toute espèce.)



Emil Claviez, Chemitz, Saxony, German Empire, 3rd July, 1894; 6 years.

Claim.—1st. The process of calendering goods of all sorts, which consists in inserting cold plates, internally hollow and provided with a rheostatic arrangement, between the layers of goods in the press and then passing an electric current through the same, all substantially as described. 2nd. The process of calendering goods of all sorts, which consists in inserting cold plates, internally hollow and provided with a finely perforated tube-grating, between the layers of goods in the press and then, after heating these plates, injecting compressed air into the same, all substantially as described. 3rd. For the purpose of carrying out the methods under claims 1 and 2, a heating plate consisting of a frame provided with a lid top and bottom, a rheostatic arrangement, and a finely perforated tube-grating *r*, being inserted in the hollow thus formed, the former for the passage of an electric current, and the latter serving for the injection of compressed air into the plate, substantially as and for the purpose herein described, with reference to the accompanying drawing.

No. 46,465. Cultivator. (Cultivateur.)



Malcolm Macleod, Los Angeles, California, U.S.A., 4th July, 1894; 6 years.

Claim.—1st. In a cultivator, the combined apparatus substantially as described and shown. 2nd. In a cultivator, a shank carried with a pivot hole and quadrant slot or series of holes, in combination, substantially as described and shown for the purpose set forth. 3rd. In a cultivator, a slotted or angular axle, substantially as described and shown for the purpose set forth. 4th. In a cultivator, the weed cutter consisting of a thin narrow metal blade,