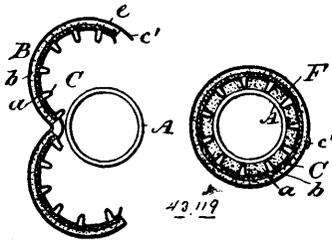
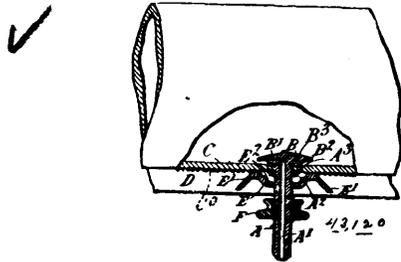


middle collar C, formed from a sheet of fluted metal, and the intermediate collars D, formed from fluted wire, interposed between the



jacket and the pipe upon which it is mounted, of the end collars M, formed by bending fluted sheets of metal into circles, the said collars having the struck up wings K, adapted to engage the ends of the jacket, and the non-conducting fillings interposed between the end collars and the pipe on which the covering is mounted adapted to create a dead air space within the jacket between the end collars, substantially as and for the purpose set forth.

No. 43,120. Valve. (*Souape.*)



The Pneumatic Tyre and Booth's Cycle Agency, Dublin, Ireland, assignees of Charles Kingston, Coventry, England, 3rd June, 1893; 6 years.

Claim.—1st. The combination, with a receptacle for containing fluid under pressure, of a valve, the flanged head of which is placed inside the said receptacle and the stem of which projects through the wall thereof, the said stem being provided with an axial hole communicating with the interior of the receptacle by an orifice in that face of the head which comes in contact with the wall of the receptacle, and means for forcing the said wall against the said face of the head, substantially as and for the purpose set forth. 2nd. The combination, with the air tube of a pneumatic tyre, of a valve constructed with a flanged head placed inside said air tube and a stem projecting through the wall of the air tube, said stem being provided with an axial hole which communicates with the interior of the air tube by an orifice in that face of the head which comes in contact with the wall of the air tube, and means for forcing the said wall of the air tube against the said face of the head, substantially as and for the purposes set forth. 3rd. The combination, with the air tube of a pneumatic tyre, of a valve constructed with a flanged head placed inside said air tube, and a stem projecting through the wall of the air tube, said stem being provided with an axial hole which communicates with the interior of the air tube by an orifice in that face of the head which comes in contact with the wall of the air tube, and by a second orifice in another part of the head, which orifice is covered with a piece of elastic material adapted to be deformed when air is pumped into the air tube and which constitutes a non-return valve, and means for forcing the under side of the head against the wall of the air tube, substantially as described. 4th. The combination, with the air tube of a pneumatic tyre, of a valve constructed with a flanged head, having an orifice in that face which comes in contact with the wall of the air tube, and a washer adapted to be pressed against the air tube and thus force the wall of said air tube against the said face of the valve head, substantially as and for the purpose specified. 5th. The combination of the rim of a wheel, the air tube of a pneumatic tyre secured thereto, a valve constructed with a flanged head having an orifice in that face which comes in contact with the wall of the air tube, a washer adapted to slide on the valve stem and a nut adapted to be screwed against the rim of the wheel and draw the valve head outwards so as to clamp the wall of the air tube between the head of the valve and the washer on the stem, substantially as and for the purposes set forth. 6th. The combination of the rim of a wheel, the air tube of a pneumatic tyre secured thereto, a valve constructed with a flanged head having an orifice in that face which comes in contact with the wall of the air tube, a washer adapted to slide on the valve stem, a nut adapted to be screwed against the rim of the wheel and draw the valve head outwards so as to clamp the wall of the air tube between the head of the valve and the washer on the

stem, and an arm secured to said nut and adapted to engage with a spoke of the wheel whereby the nut which operates the valve is prevented from slacking back when in use, as and for the purpose specified.

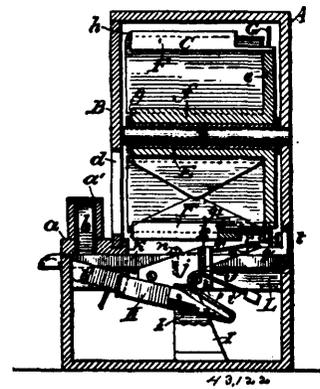
No. 43,121. Incandescent Electric Lamp.
(*Lampe électrique à incandescence.*)



Henry Sachs Kalisk, assignee of Eugene McQuat, both of Boston, Massachusetts, U.S.A., 3rd June, 1893; 18 years.

Claim.—1st. The above described method of making an incandescent electric lamp, consisting of the following steps: 1st, uniting to the interior of an adhesively hot glass tube, two platinum wires; 2nd, causing the said tube to collapse by heat, so that the edges of the tube shall seam together and form a globular mass around the wires; 3rd, drawing the wires away from each other and outwardly dragging the adhering glass with them so as to ensure better contact and to leave the glass in better form for resisting fracture, substantially as described. 2nd. In an incandescent electric lamp, the method of manufacture consisting of the following steps: 1st, placing the prepared tubular "mount" with attached filament loosely into the open neck lamp bulb; 2nd, drawing down the neck of the bulb while the "mount" is within it, and cutting off the former at a point where it is at least as small as the end of the "mount" tube; 3rd, melting together the unexpanded open end of the "mount" tube, and the drawn out neck of the lamp bulb; 4th, pushing the "mount" and adjacent parts inward, until the filament is properly located, and the end of the neck of the bulb assumes the form of an inwardly projecting cone, substantially as described.

No. 43,122. Vending Apparatus.
(*Appareil de vente.*)



The Hess Postal Facility and Supply Company, Philadelphia, assignees of Christian Hess, Steelton, all of Pennsylvania, U.S.A., 3rd June, 1893; 6 years.

Claim.—1st. A vending apparatus comprising a suitable movable carrier for the articles, a slide adapted to be grasped by the operator and in direct engagement with the carrier for giving a step by step movement to the same, said slide provided also with means whereby in its outward movement it acts against an article for delivering the same, and a coin operated detent for said slide, substantially as described. 2nd. A vending apparatus comprising a rotatable carrier having pins upon its periphery, a slide adapted to be grasped by the operator and in direct engagement with the pins to rotate the carrier, a coin operated dental engaging said slide, and a projection carried by said slide for forcing out the articles from the carrier, substantially as described. 3rd. A vending apparatus comprising a rotatable carrier having pins or projections upon its periphery, a slide adapted to be grasped by the operator, a coin operated detent for said slide, said slide having an inclined slot for the passage