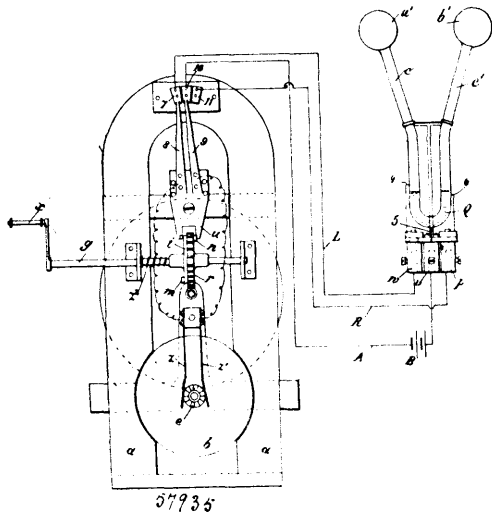


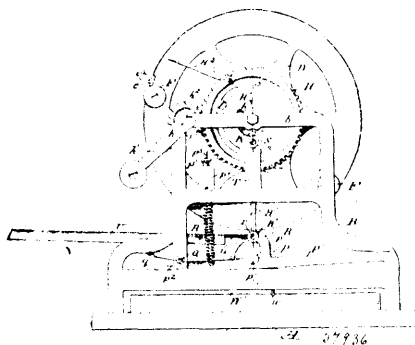
No. 57,935. Apparatus for Raising and Lowering Blinds. (*Appareil pour lever et baisser les stores.*)



Hella Actien-Gesellschaft für Automatische Sonnenschutz-Vorrichtungen, Kurfürsten-Strasse, Berlin, assignee of Eugen Roth, 38 Loh-Strasse, Osnabrück, both in the Kingdom of Prussia, (Germany, 2nd November, 1897; 6 years. (Filed 26th June, 1897.))

Claim.—1st. Apparatus for automatically lowering and raising of blinds characterized by the arrangement of the two transparent bulbs *a'*, *b'*, exposed to the sun, of which the one *b'* is provided with a dark coat of varnish or paint, or better partly filled with a non-transparent substance, as for example wadding wool or similar material for the purpose of enabling the sun to warm the air in this darkened bulb, whereas it passes through the transparent bulb without warming the air contained therein, so that the warmed air presses upon the mercury column and effects the closure of the circuit and upon the disappearance of the sun's rays the contact is, however, interrupted and another circuit closed, both in connection with an electric motor, which effects the motion of the blind. 2nd. In the apparatus, the arrangement by which the motion of the electric motor upon the interruption of the latter always closes the connection of the wires, which in the sun contact is open, so that when the contact under the influence of the sun closes the circuit at its place the motor is rotated in a reverse direction. 3rd. An arrangement of the apparatus set forth in such a manner that the electro-motor for lowering and raising the blinds is switched on, off or reversed by means of a contact apparatus controlled by the hand.

No. 57,936. Duplicator. (*Duplicateur.*)



John G. Cortelyou, Omaha, Nebraska, and George H. Roose, St. Louis, Missouri, assignee of Harry W. Lowe, Omaha, Nebraska, both in the U.S.A., 2nd November, 1897; 6 years. (Filed 18th June, 1897.)

Claim.—1st. In a duplicator, the combination with a base, of a rotary open work carrier thereon, comprising two wheels, bars connecting the wheels, a perforated stencil carrier and pressure plate fixed to the wheels, and means for applying and forcing ink to and through the inner face of the plate. 2nd. In a duplicator, the

combination, with a supporting frame, of a rotary open work carrier mounted thereon, comprising end supporting members, a segmental perforated stencil supporting, and pressure plate secured to the supporting members, and means for securing a stencil on the plate, an inking device within the carrier, and means for rotating the carrier. 3rd. In a duplicator, the combination with a rotary carrier, consisting of an open frame, of means for rotating the carrier, a perforated stencil carrier and pressure plate secured to the carrier and extending around the same a distance substantially equal to the length of the stencil sheet to be used, and an ink distributing and forcing device within the carrier. 4th. In a duplicator, the combination with a rotary frame, of a perforated stencil carrying and supporting plate on the frame, a pad clamp, and an independent stencil clamp at the edge of the plate. 5th. In a duplicator, the combination with a rotary frame comprising end sections and channelled bars connecting the end sections at different points, of a perforated stencil carrying and supporting plate on the frame, removable clamping bars located in the channels, and means for retaining the bars in place. 6th. In a duplicator, the combination with a rotary frame comprising end sections and channelled bars connecting the sections, of two independent clamping bars in one of the channelled bars, and a single clamping bar in the other channelled bar. 7th. In a duplicator, the combination with a feed roll, of a pivoted carrier, a perforated or open work stencil supporting section on the carrier, the same serving as a compression roll or member acting in conjunction with the feed roll to produce the impression, and an ink distributing and forcing device within the carrier. 8th. In a duplicator, the combination with a rotary carrier, of a gearing for rotating the same, means for adjusting the gearing, comprising a crank and pinion and means for securing the gear in adjusted positions, a feed roll, and means associated with the roll actuated by said gearing to vary the relative positions between the carrier and roll. 9th. In a duplicator, the combination with a rotary carrier, of a feed or impression roll yieldingly supported beyond the carrier, a cam carried by the carrier, an adjustable connection between the cam and roll, means for rotating the carrier, and means for locking the roll in an inactive position. 10th. In a duplicator, the combination with a rotary carrier, of a yieldingly supported roll beyond the carrier, an adjustable extension on the roll support, a locking device for holding the roll in an inactive position, and means on the carrier for engaging said extension for moving the roll outward. 11th. In a rotary duplicator, the combination with a rotary carrier, of spring supported arms below the carrier, a roll carried by the arms, a lock for the arms, a projection on an arm, a cam on the carrier, and an adjustable extension on the projection arranged to be engaged by the cam. 12th. In a rotary duplicator, the combination with a rotary carrier, of spring supported arms below the carrier, a roll carried by the arms, a projection on an arm, a cam on the carrier, an adjustable extension on the projection arranged to be engaged by the cam, and a crank for simultaneously moving both arms. 13th. The combination with the carrier, of the spring actuated arms below the same, a roll carried by the arms, and a crank loosely engaging the ends of the arms having a handle thereon. 14th. In a rotary duplicator, the combination with the stencil carrier, of arms pivotably supported below the carrier, springs for maintaining the arms in position, an extension on one of the arms, a slotted projection on the extension, a link adjustably secured in the slot, a block on the link, an antifriction roll on the block, and a cam on the carrier engaging the roll, substantially as described. 15th. In a duplicator, the combination with a rotary carrier, and means for rotating the same, of a perforated stencil holding plate on the carrier, an impression roll or device, and an inking roll, a stationary support for the inking roll, and means for moving the roll out of the path of the holding plate, substantially as described. 16th. In a duplicator, the combination with a rotary carrier consisting of an open frame, of means for rotating the carrier, a segmental stencil holder on the carrier, an impression device and an inking roll stationarily mounted relative to the carrier, means for adjusting the inking roll to engage the stencil holder at different points, and means for moving the roll radially, substantially as described. 17th. In a duplicator, the combination with a rotary carrier, of a stencil holder mounted thereon, an impression roll, means for driving the carrier, and an adjustable yieldingly supported inking device arranged to engage the inner face of the stencil holder, substantially as described. 18th. In a duplicator, the combination with a rotary carrier, of a perforated stencil holder secured on the carrier, means for securing a stencil on the holder, means for applying the ink to the inner face of the perforated holder comprising a radially adjustable roll, and an impression roll. 19th. In a duplicator, the combination with a rotary carrier having a stencil holding section, of a yielding inking device and a yielding impression device, and means on the carrier for moving the inking and impression devices out of the path of the stencil carrier section of the carrier. 20th. In a duplicating machine, the combination with a frame, of a rotary carrier, a stationary shaft on which the carrier is mounted, tracks on the carrier, adjustable brackets on the shaft, rods yieldingly supported on the brackets, and an inking roll mounted on a shaft and held in engagement with the tracks by the rods. 21st. In a duplicator, the combination with a rotary carrier, of a stationary shaft on which the same is mounted, brackets on the shaft, rods slidingly engaging with the brackets, springs on the brackets engaging the rods, and an inking device carried by the rods. 22nd. The combination with the frame, the rotary carrier and