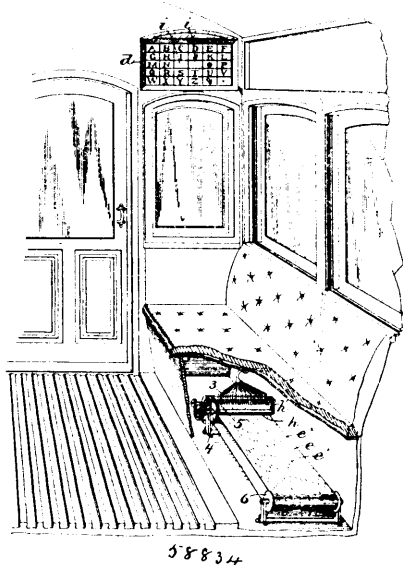


case having the minute-hand secured thereto, clockwork mechanism secured to said body portion at one side thereof, gear-faces around the transparent plate and loose ring adapted to engage with gear-wheels on a shaft in the clockwork mechanism, a disc carrying a set of pictures secured on a shaft located within the body portion, clockwork mechanism connected to said shaft, and mechanism connected to said first clockwork mechanism for operating the second clockwork mechanism to automatically change or shift the pictures, substantially as described. 13th. In illuminated-sign apparatus, comprising a lens and the source of light, a transparent clock-dial, a transparent plate having the hour-hand secured thereto, a loose ring having the minute-hand secured thereto, and mechanism for operating said transparent plate and loose ring, substantially as described. 14th. An illuminated-sign apparatus, comprising a lens and a source of light, a transparent clock-dial, a transparent plate having the hour-hand secured thereto, a flanged case around the transparent plate, a loose ring within the flanged case, and mechanism for operating said transparent plate and loose ring, substantially as described. 15th. An illuminated-sign apparatus, comprising a lens and a source of light, a transparent clock-dial, a transparent plate having the hour-hand secured thereto, a flanged case around the transparent plate, a loose ring within the flanged case, and gear-faces around said transparent plate and loose ring adapted to engage with gear-wheels on a shaft in the clockwork mechanism, substantially as described.

No. 58,834. Advertising Apparatus.

(Appareil de publicité.)

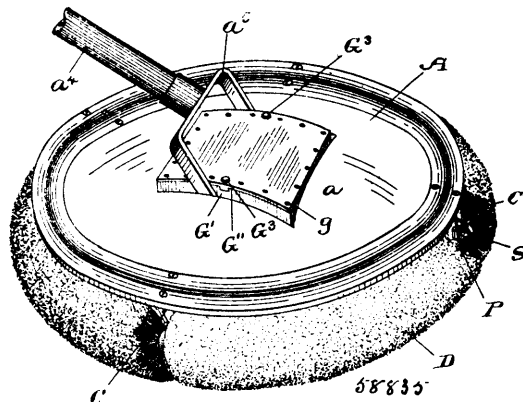


Frederic Leavitt Milliken, Milton, assignee of Willard Herbert Gilman, Boston, both in Massachusetts, U.S.A., 25th January, 1898; 6 years. (Filed 23rd September, 1897.)

Claim.—1st. An apparatus of the character specified, comprising a series of incandescent electric lamps, a corresponding series of branch circuits, each including one of the lamps, casing enclosing said lamps and provided with light-outlets representing letters or other symbols, a sheet or strip having provisions for automatically breaking and closing said circuits in accordance with a predetermined programme, and means for moving said sheet. 2nd. An apparatus of the character specified, comprising a series of incandescent electric lamps, a corresponding series of branch circuits, each including one of the lamps, and each having separable terminals which are normally in contact with each other, a perforated sheet or strip of insulating material interposed between said terminals, and means for moving said sheet, the perforations in the sheet permitting contact between the terminals and the closing of the circuits through the lamps in accordance with the arrangement of the perforations. 3rd. An apparatus of the character specified, comprising a series of incandescent electric lamps, a corresponding series of branch circuits, each including one of the lamps, an elongated terminal included in all the circuits, a series of individual terminals, each included in one of the circuits and adapted to normally make contact with the elongated terminal, a perforated sheet or strip of insulating material interposed between the elongated terminal and the series of individual terminals, and means for moving said sheet, the perforations in the sheet permitting contact between the individual terminals and the elongated terminal and the closing of the circuits through the lamps in accordance with the arrangement of the perforations. 4th. An apparatus of the character specified, comprising a series or group of electric lamps, a series of branch

circuits including said lamps, a series of cells or casings enclosing the lamps, and each provided at its outer end with a light-emitting outlet, the outlets of the different cells differing in design, a frame enclosing the series of outlets, and automatic means for breaking and closing said circuits. 5th. An apparatus of the character specified, comprising a series or group of electric lamps, a series of branch circuits including said lamps, a series of cells or casings enclosing the lamps and each provided at its outer end with a light-emitting outlet, the outlets of the different cells differing in design, a frame enclosing the series of outlets, a translucent covering extending across said outlets and enclosed by the frame, and automatic means for breaking and closing said circuits. 6th. An apparatus of the character specified, comprising a series of incandescent electric lamps, casings therefor having light-outlets representing letters of the alphabet, and additional lamp and a casing therefor having a light-outlet differing in shape from the other light-outlets and adapted to serve as a space-indicator, a series of branch circuits including said lamps, a sheet or strip having provisions for closing the circuit through any desired number of the lamps having letter-shaped light-outlets, and additional provisions for closing the circuits through the lamp having the space-indicating light-outlet, and means for moving said strip.

No. 58,835. Carpet Sweeper. (*Balayeuse de tapis.*)



Frank Pierce Keesee, Toronto, Ontario, Canada, 25th January, 1898; 6 years. (Filed 10th January, 1898.)

Claim.—1st. A carpet sweeper, consisting of a frame, a centrally located dust collector, and a centripetally revolving brush or brushes surrounding the dust collector, substantially as specified. 2nd. A carpet sweeper, consisting of a frame, a centrally located dust collector, a centripetally revolving brush or brushes surrounding the dust collector, and means for propelling the sweeper and revolving the brush, substantially as specified. 3rd. A carpet sweeper, consisting of a frame, a centrally located dust collector, a centripetally revolving brush surrounding the dust collector, a flexible shaft for the brush bearings in which is mounted the said shaft, propelling wheels for the sweeper, and means for imparting motion from the propelling wheels to the flexible shaft, substantially as specified. 4th. A carpet sweeper, consisting of a frame, a dust collector centrally located in the frame, a centripetally revolving brush surrounding the dust collector, propelling wheels and adjustable bearings for the propelling wheels, and means for imparting motion from the propelling wheels to the brush, substantially as specified. 5th. In a carpet sweeper, a frame, a dust collector consisting of a band suspended from the main frame of the carpet sweeper, a flexible apron connected to the edge of the band depending below the brushes, and a sectional bottom hinged to the band, substantially as specified. 6th. A carpet sweeper consisting of a main frame, a supplemental frame centrally located in the underside of the main frame having an open bottom, vertically adjustable bearings carried by the supplemental frame, adjusting screws carried by the supplemental frame for adjusting the bearings, an axle journaled on the bearings, propelling wheels rigidly mounted on the axle, ratchet discs loosely mounted on the axle and set in opposite directions, spring actuated dogs carried by the propelling wheels, sprocket teeth formed on the ratchet discs, a dust collector surrounding the supplemental frame, consisting of a band having an upwardly extending flange, a rubber apron depending from the band, arms connected to the band and supplemental frame, a bottom hinged to the said arms having an opening registering with the open bottom of the supplemental frame, bearings suspended from the main frame, a flexible shaft mounted in the bearings, a brush woven on a band or ribbon and wound spirally on the flexible shaft, sprocket teeth carried by the flexible shaft and sprocket chains passing around the sprocket teeth of the ratchet discs and flexible shaft, substantially as specified. 7th. In a carpet sweeper, a brush consisting of a flexible core, a ribbon wound on the flexible core, and bristles secured to the ribbon to form a continuous annular brush, substantially as specified. 8th. In a carpet sweeper, a dust collector consisting of a frame, a centrally located ring suspended