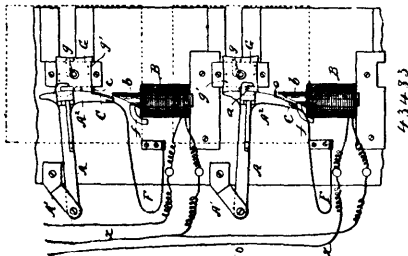


other pieces *a* and *c*, the tenons and mortises uniting the end of the sides, all substantially as shown and described. 3rd. A packing box having the slotted sides *A*, in combination with an end piece and the staple *e*, seated in the slot and secured at one end to the end piece and engaging the sides at the other end. 4th. In combination, with sides *A*, grooved as at *d*, and slotted as at *f*, an end piece seated in the groove, and the staple *c*, mounted in the slot and engaging the end piece and side. 5th. In combination, with sides *A*, slotted as at *f*, the end piece, the staple *c*, seated in the slot and engaging the side and end piece, and the strip *g* applied to the back of the staple, substantially as shown and described.

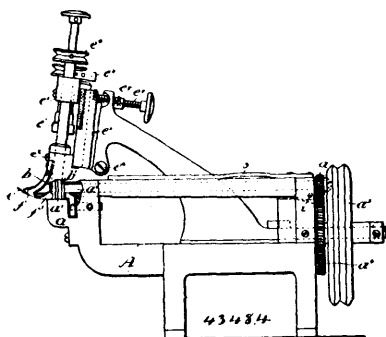
**No. 43,483. Apparatus for Automatically Displaying Advertisements, &c. (Appareil automatique pour exhiber les annonces, etc.)**



George Cook, Clerkenwell, London, England, and Charles Kerr Marr, Glasgow, Scotland, 5th July, 1893; 6 years.

**Claim.**—1st. In combination, the drums, the magnet and armature with means operated thereby for turning the drums, the series of radiating spring contact blades *E*, the rotary contact marker *d*, with clock work for operating the same, the pin *c*, against which the spring blades are pressed and the electrical connections, substantially as described. 2nd. In combination, the drum, the disc *G* on the drum shaft having the pins and the curved facets, the magnet, the pivoted armature lever having a curved end conforming to the facets of the disc and adapted to lock the same and the pawl carried by the armature lever to engage the pins on the disc for turning the same, substantially as described. 3rd. In combination, the display drums, the magnet and armature with means operated thereby for moving the drums step by step, the electrical connections with a contact breaker *d*, and the adjustable contact breaker to determine the duration of the action, of the device comprising the two adjustable discs placed side by side on a spindle *k*, and having contact surfaces extending partially about their peripheries, the means for holding the discs in their adjusted positions including the perforated plate and pin *l*, and the contact *n*, arranged to bear on the contact surface of the discs, substantially as described. 4th. In apparatus operated by clock work mechanism for automatically displaying advertisements, pictures and the like, the combination with the clock of a contact making cam *d*, and spring blades *E* connected by wires to electric induction magnets *B* in a battery circuit, the magnets being caused to turn the cylinders or drums displaying the advertisements by the cam *d*, making contact of the spring blades *E* with pins *c*, in the circuit, substantially as described. 5th. In apparatus of the class set forth, the combination of the lever *A* with its plate *C*, *c*, magnets *B*, spring *F* and escapement *G* operating to turn the cylinders or drums *H*, substantially as and for the purpose described with reference to the drawings annexed. 6th. In apparatus of the class set forth, the adjusting mechanism substantially as described with reference to figures 5, 6 and 7 of the drawings for automatically controlling the duration of the machine's operation.

**No. 43,484. Leather Skiving Machine. (Machine à biseauter les cuirs.)**



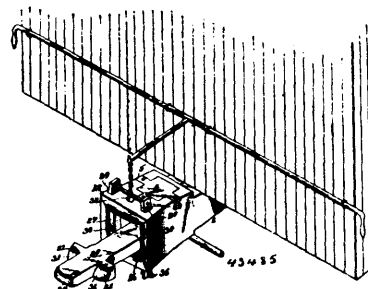
Andrew J. Tewksbury, Haverhill, Massachusetts, U.S.A., 5th July, 1893; 6 years.

**Claim.**—1st. In a leather skiving machine, a bed, a feed roll, and its rotatable shaft constituting the feeding mechanism, combined

with the presser rolls *b*, *b'*, and rotary knife, substantially as described. 2nd. In a leather skiving machine, the stationary bed and serrated feed roll, and its rotatable shaft constituting the feeding mechanism, combined with the presser roll beside the feed roll, lip *f'*, and rotary knife, substantially as described. 3rd. In a leather skiving machine, the combination of a bed over which the material passes, a feed roll above the bed, its rotatable shaft, a pivoted spring pressed frame supporting said shaft, and a rotary knife, substantially as described. 4th. In a leather skiving machine, the combination of a bed, a yielding feed roll, a yielding presser roll *b'*, and rotary knife, substantially as described. 5th. In a leather skiving machine, the combination of a bed, a yielding feed roll, yielding presser *b*, lip *f'*, and rotary knife, substantially as described. 6th. In a leather skiving machine, the combination with a feeding device, of two presser rolls loosely mounted on a shaft, a gage as *c*, a lip as *f'*, and a rotary knife, substantially as described. 7th. In a leather skiving machine, a feeding device combined with a knife, its rotatable shaft, a grinder and its rotatable shaft, a block as *e'*, serving as bearings for said shaft, and a supporting block as *e''*, in which said block *e'* is vertically adjustable, substantially as described. 8th. In a leather skiving machine, a feeding device combined with a knife, its rotatable shaft, a grinder and its rotatable shaft, a block as *e'*, serving as bearings for said shaft, a supporting block *e''*, in which said block *e'* is vertically adjustable, a pivot for the block *e''*, and means to move it on its pivot, substantially as described. 9th. In a leather skiving machine, a feeding device combined with a knife, its rotatable shaft, a grinder and its rotatable shaft, a block as *e'*, serving as bearings for said shaft, a supporting block as *e''*, in which said block *e'* is vertically adjustable, and a screw rod on which said block *e''* is mounted and upon which it is laterally movable, substantially as described. 10th. In a leather skiving machine, the following instrumentalities, viz.: Feeding devices, and a rotary cutter, the rotary shaft *g'*, reduced in diameter at its lower end to leave a shoulder, a grinding disc, and an oil retaining cup mounted on reduced portion of the shaft, said cup abutting against said shoulder and held between it and the grinding disc, substantially as described.

**No. 43,485. Combined Car and Air Brake Coupler.**

(Atelage de char et de frein atmosphérique combinés.)



The Mable Automatic Car and Air Self Coupler Company, assignee of William Mable, all of Port Collins, Colorado, U.S.A., 5th July, 1893; 6 years.

**Claim.**—1st. In a coupling of the character described, the combination of automatically adjustable air boxes or chambers loosely mounted within the draw-heads, and having the air pipes of the air brakes connected thereto, and a tubular link adapted to connect said air boxes or chambers and form a conduit for the air pipes, substantially as described. 2nd. In a coupling of the character described, the combination of air boxes or chambers loosely arranged and automatically movable in the draw-heads, and having a flexible diaphragm in the bottom portions thereof, air brake pipes connected thereto, and a coupling link of tubular form having openings therein adjacent to the ends thereof adapted to engage said diaphragm, said diaphragm having an opening therein, in direct communication to the brake pipe and link, substantially as described. 3rd. In a coupling of the character described, the combination of the draw-heads having openings extending through opposite sides thereof, the coupling link with shoulders arranged in pairs on opposite sides adjacent to the ends of the same, and coupling pins vertically movable in said draw-heads, and having enlargements at the upper portions thereof adapted to engage the shoulders of said link, substantially as described. 4th. In a coupling of the character described, the combination of draw-heads, air chambers or boxes mounted therein having air pipes attached thereto, a tubular link adapted to communicate with the said air chambers or boxes, and adjustable cams mounted in the upper portions of said air boxes or chambers and adapted to engage the upper portions of the ends of the link to sustain an air tight connection, substantially as described. 5th. In a coupling of the character described, the combination of draw-heads having chambers therein, air boxes or chambers loosely mounted in said chambers of the draw-heads and having weighted portions, and a tubular link adapted to engage said air boxes or chambers and be