P. F. DALLENNE & F. A. E. MESSAGER.

SHOW CASES.

No. 182,643. Patented Sept. 26, 1876.

FIG. 1.

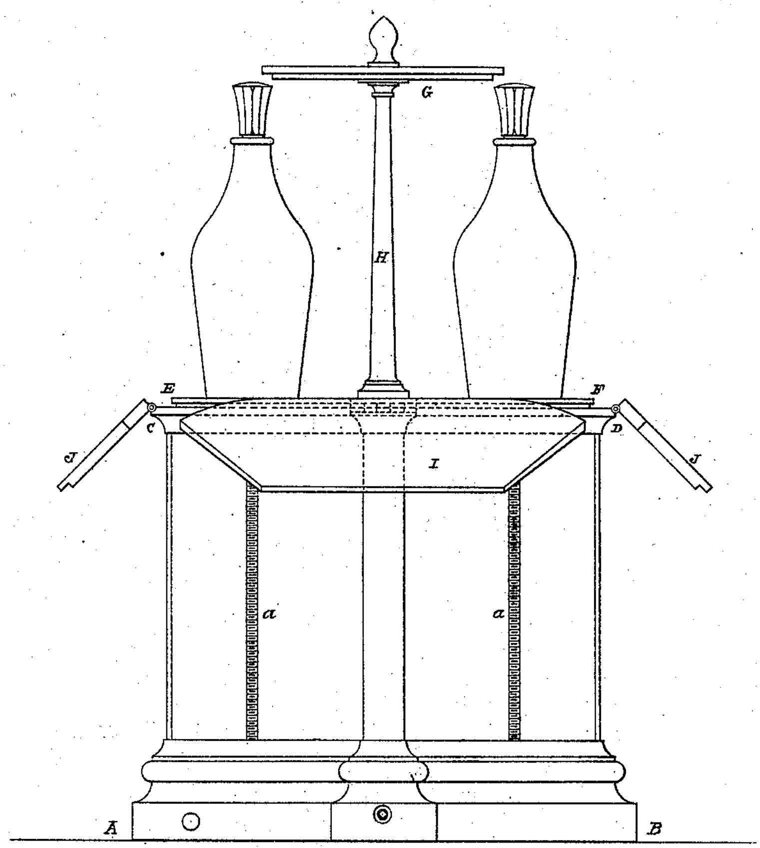
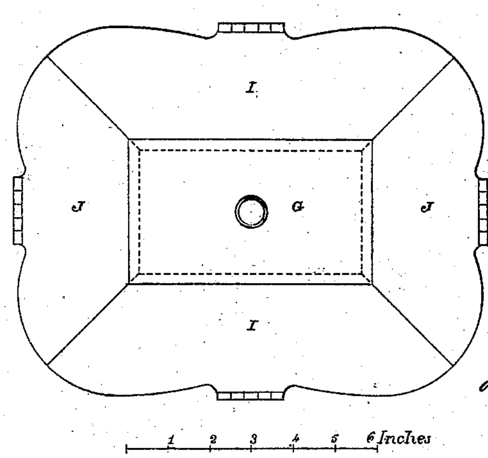
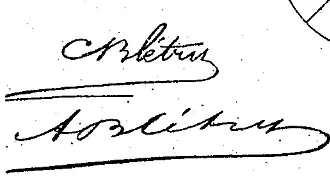
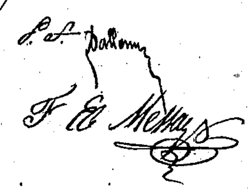


FIG. 2.







2 Sheets—Sheet 2.

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FIG. 3.

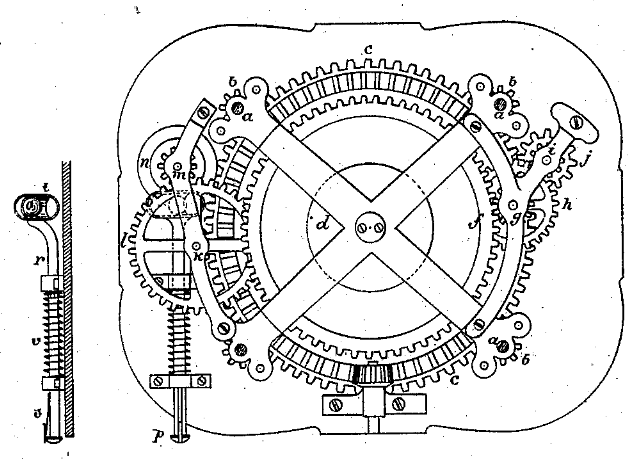


FIG. 4.

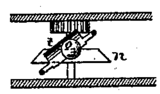


FIG. 5.

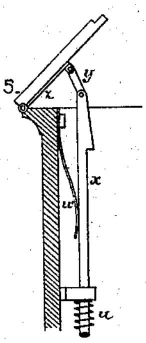
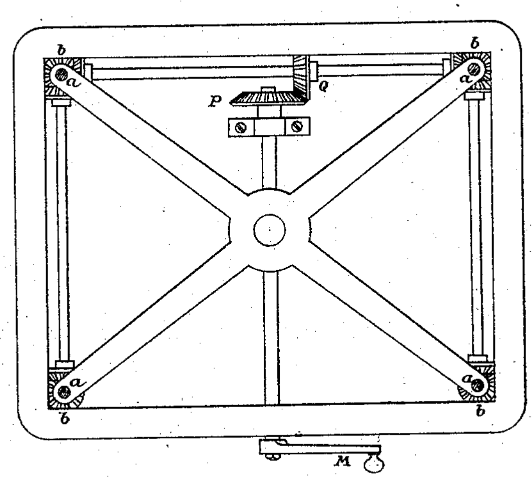


FIG. 6.



UNITED STATES PATENT OFFICE.

PIERRE FRANÇOIS DALLENNE AND FELIX ADRIEN EDOUARD MESSAGER, OF PARIS, FRANCE.

IMPROVEMENT IN SHOW-CASES.

Specification forming part of Letters Patent No. **182,643**, dated September 26, 1876; application filed November 30, 1874.

To all whom it may concern:

Be it known that we, PIERRE FRANÇOIS DALLENNE and FELIX ADRIEN EDOUARD MESSAGER, of Paris, France, have invented a Liquor-Case, of which the following is a specification:

This invention relates to an improved casing and stand for holding and exposing for use liquor decanters or bottles, cigar-receptacles, and other like articles; and it consists of a casing of suitable shape, containing a movable platform for the reception of the decanters or other articles, and capable of being raised and lowered by means of suitable machinery operated by hand, or by means of a spring, the top of the casing being provided with hinged wings at each side, which serve, in connection with a movable center-piece, secured to a standard attached to the movable platform, to close the box when the platform is down, and which are automatically opened by said platform as it is raised, as more fully hereinafter set forth.

In the accompanying drawing, Sheet 1, Figure 1 represents the case with the liquor-stand raised, and Fig. 2 the same with the lid closed. In Sheet 2, Fig. 3 shows a general plan of the mechanism actuating or effecting the movements of the liquor-stand by the action of a barrel-spring. Figs. 4 and 5 are details, and Fig. 6 shows an arrangement of mechanism for acting by hand on the liquor-stand.

A B C D is the case of the apparatus, with lateral faces of glass, or other transparent substance, inframed in two frames, one upper, C D, and one lower one, A B, in bronze, marble, wood, or other suitable substance; E F, second platform or liquor-stand, clearing the case when open, to admit, if necessary, of turning on the first platform, which, in the drawing, is concealed by the frame C D. The first stage bears four nuts, in which the screws *a a a a* pass, and which cause the ascent and descent of the liquor-stand by aid of this first stage. These screws *a* are set in motion by the pinions *b*, which gear with the great and lower wheel *c*. *d* is the barrel-spring motor mounted on the wheel *c*, of which it is independent, loose on the central axis. This barrel is solid with the upper toothed wheel *f*, which actuates the pinion *g*, which latter is fixed on the axis of the wheel *h*, governing the pinion *i*, and consequently the wheel *j* communicates motion to the great wheel *c*. The regulator of the movement is placed on the other side, and consists of a pinion, K, gearing with the wheel *c*, and mounted on the axis of the wheel *l*, which, by the pinion *m* or an endless screw, governs the cone *n*. On this cone the stop-organ or piece *o* acts, having free play in a tube, *t*, Fig. 4, inclined so that in descending the ball makes an angle on the inclined plane of the cone *n*. This stop-piece or ball *o* approaches or separates from the cone *n*, by maneuvering the button *p* of the shaft *r*, on which the tube *t* is mounted. The spring *s* frees itself from a retaining-notch by a simple pressure, leaving the shaft *r* subject to the action of the spiral spring *v*, which action consists in applying the ball to the cone *n*. Thus, in separating the ball *o* from the cone of friction, the barrel *d*, by the intermediary cog-wheels *f g h i j*, turns the wheel *c*, which itself, by the pinions *b b*, turns the screws *a a*, which cause the liquor-stand to rise. In approaching the ball *o* to the cone *n*, the instantaneous stoppage of the movement is effected without noise.

The stage E F, on its upward movement, opens the lid of the case. The said stage is provided with a vertical central standard, H, upon the top of which is secured a stage or platform, G. Said standard is of such length that, when the stage E F is fully down, said platform G will lie in a line about level with the top of the casing. The letter J represents a series of four wings or flaps hinged to the sides of the casing at the top, and beveled at right angles at their ends, so as to fold together when in position shown in Fig. 2, and with the platform G close the casing. Immediately under each wing or flap, and pivoted to the same pin on which said flap is hinged, is a hinged plate, *z*, connected by means of a link, *y*, with a vertically-movable rod, *x*. Said rod is provided with a hook at its upper end, under which the edge of the movable platform engages in its upward movement, carrying the said rod *x* upward until the hinge *z* is in

a vertical position, when the hook is released and the rod returned to its original position by means of a spring, *u*. The letter *w'* represents a spring attached to the inside of the casing, and bearing against the rod *x*, for throwing the hook outward into position to be caught by the ascending platform or stage. The inner sides of the wings or flaps may be provided with suitable receptacles for cigars, &c., and, after passing the vertical line in their upward movement, fall by their own weight into position, as indicated in Fig. 1.

As before stated, the platform or stage E F is automatically raised by means of the barrel-spring and intermediate gearing, and it is lowered by means of a key applied to the key-shaft, by means of which said shaft may be turned, at the same time winding up the spring ready for action to raise the stage again, the flaps or wings being first closed by hand.

In the modification shown in Fig. 6, the stage G is raised and lowered by turning the key-shaft, the same being connected, by means of beveled gearing P and Q, with horizontal shafts provided with suitable beveled pinions, gearing in similar beveled pinions on the screw-shafts *a*, upon which the stage E F is supported and travels.

What we claim, and desire to secure by Letters Patent, is—

1. The combination of the movable stage E F with the vertical screws *a*, provided with pinions at their lower ends, the intermediate gearing *f g h i*, barrel *d'*, and wheel C, substantially as described.

2. In combination with the movable platform E F the hooked rods *x*, link *y*, hinge *z*, and flaps or wings J, substantially as described.

3. In combination with the movable platform E F and flaps J, the stage or platform G, substantially as described.

4. In combination with the beveled wheel *n*, wheel *c*, and intermediate gearing *l m*, the spring-rod *r*, cone *t*, and elastic ball or stop *o*, substantially as described.

5. The combination of the movable platform E F and the gearing for raising the same, the standard H, platform G, flaps J, the whole constructed and arranged to operate substantially as described.

P. F. DALLENNE.
F. E. MESSAGER.

Witnesses:
C. BLÉTRY,
A. BLÉTRY.