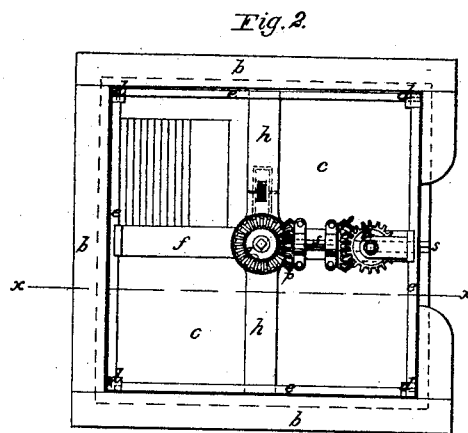
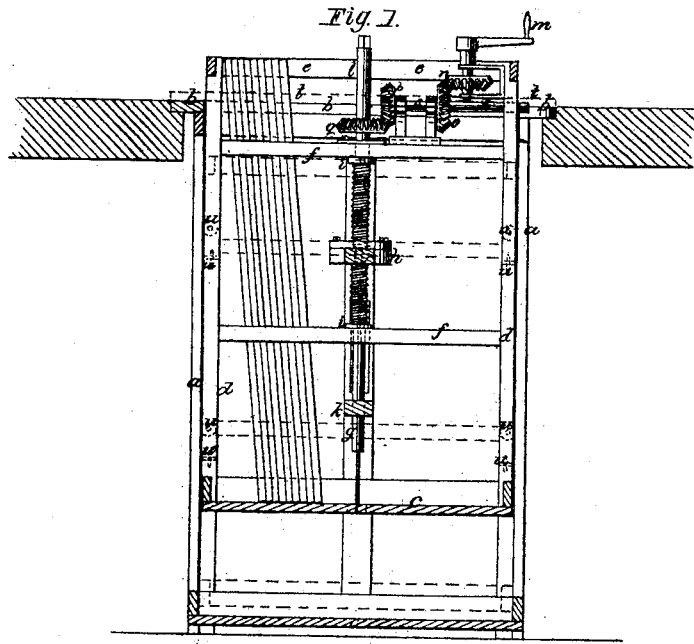


J. INGRAM.  
SHUTTER CASE.

No. 49,411.

Patented Aug. 15, 1865.



Witnesses:  
*Chas. H. Smith*

Inventor:  
*J. Ingram*

# UNITED STATES PATENT OFFICE.

JAMES INGRAM, OF NEW YORK, N. Y.

## IMPROVEMENT IN SHUTTER-CASES.

Specification forming part of Letters Patent No. 49,411, dated August 15, 1865.

*To all whom it may concern:*

Be it known that I, JAMES INGRAM, of the city and State of New York, have invented, made, and applied to use a certain new and useful Improvement in Shutter-Cases; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawings, making part of this specification. wherein—

Figure 1 is a plan of my shutter-case, and Fig. 2 is a vertical section of said case.

Similar letters denote the same parts.

The shutters for the windows and doors of stores have heretofore usually been contained in a case or box at the side of the store or stood up in some out-of-the-way place during the day-time. In this condition they are generally exposed to the action of the weather and to other injury, and in cases where the shutters are lowered down into a stationary case in the sidewalk they are often injured by being dropped some distance into the case.

The nature of my said invention consists in a sliding shutter-case acted on by a screw, so that the case can be lowered after the shutters have been placed in it, or raised previous to the shutters being taken out of said case. By this device the shutters are entirely excluded from the action of the weather and the handling of them facilitated, so that they are not as liable to be broken as heretofore.

In the drawings, *a* is a frame of suitable size and shape, at the upper end of which is a flange, *b*, that is to be set into the flag-stone of the sidewalk, or level with the area or stone over the area, so that the frame *a* shall be entirely below and out of the way. Within the frame *a* is the sliding shutter-case, formed of the bottom *c* and angle-pieces *d d*, and these angle-pieces *d d* are connected to each other by the bars or frame *e*.

*ff* are cross-pieces from the side bars of the shutter-case, which cross-pieces *ff* receive and

sustain the screw *g*, collars being provided at *i i*, so that the screw *g* is kept in position between the cross-pieces *ff*.

*h* is a cross-bar from the frame *a*, carrying the nut of the screw *g*, and *k* is a similar cross-bar, acting as a guide to the lower end of the screw *g*.

It will now be evident that if the screw *g* is rotated in the stationary nut in *h* the entire shutter-case will be raised or lowered, and with it the shutters that may be contained in it. These shutters are represented at *l*.

The screw *g* may be extended up, as shown at *l*, and be operated by a crank-handle placed upon its upper end, or, if the distance across is too far to reach conveniently, the motion may be communicated from the crank *m* through the gears *n*, *o*, *p*, and *q*; or the shaft *s*, carrying the gears *o* and *p*, may have a square at the end for the reception of said crank, so as to rotate the screw more easily when the shutter-case is partially raised.

The red lines in Fig. 2 illustrate the point to which the shutter-case can be lowered so as to be below the top of the frame *a* entirely, and a cover is to be put over the whole, as shown by the red line at *t*.

The sliding shutter case may be provided with friction-rollers at the angles, as seen at *u*, and a counterpoise may be provided to aid in raising the shutters and case.

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

The stationary frame *a*, below the sidewalk or other surface, in combination with the sliding shutter-case and screw, substantially as and for the purposes specified.

In witness whereof I have hereunto set my signature this 28th day of March, A. D. 1865.

JAMES INGRAM.

Witnesses:

THOS. GEO. HAROLD,  
CHAS. H. SMITH.