

(No Model.)

M. SCHMUCKER.
WAGON BOX FASTENER.

No. 389,324.

Patented Sept. 11, 1888.

FIG. 1.

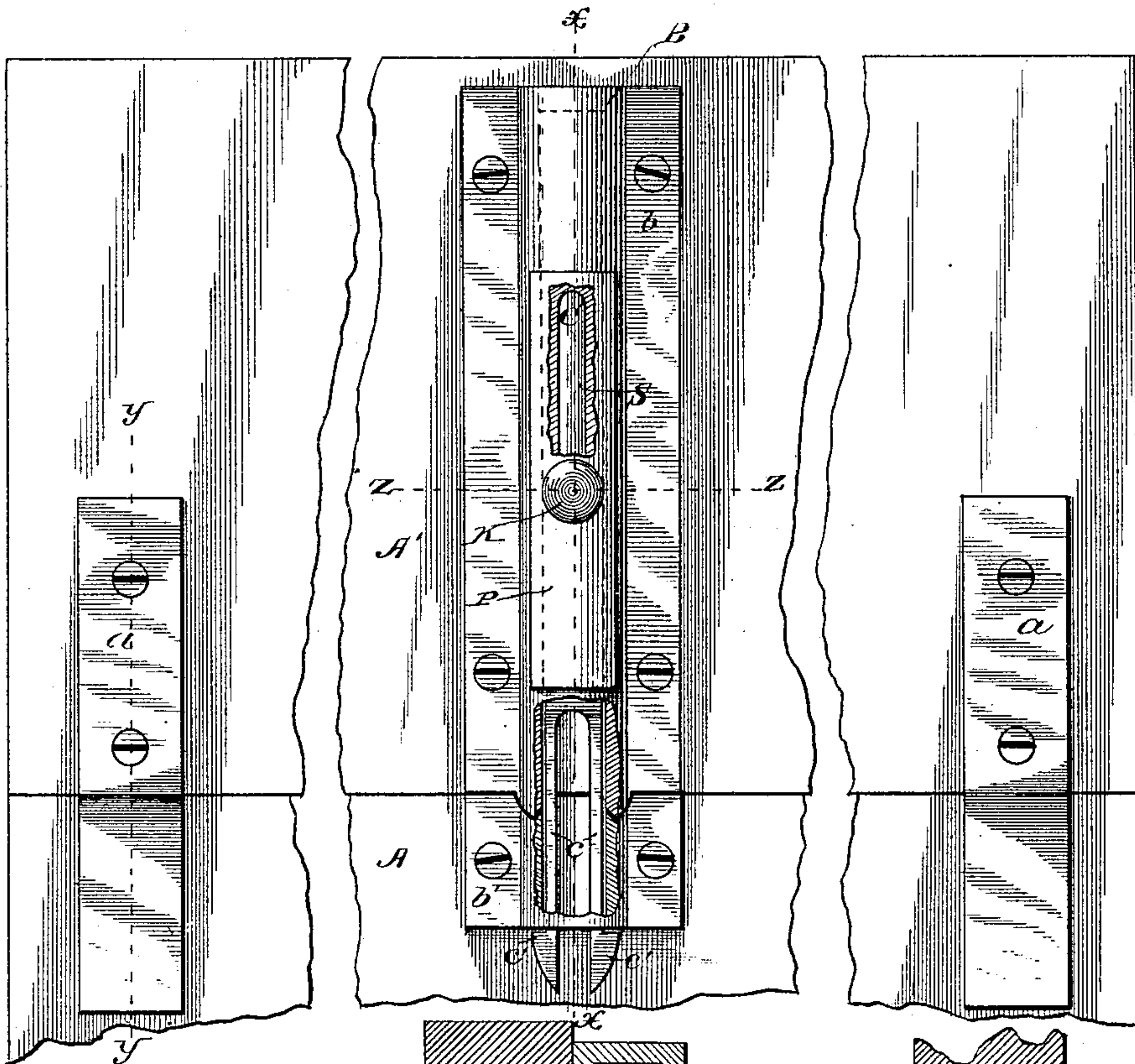


FIG. 4.

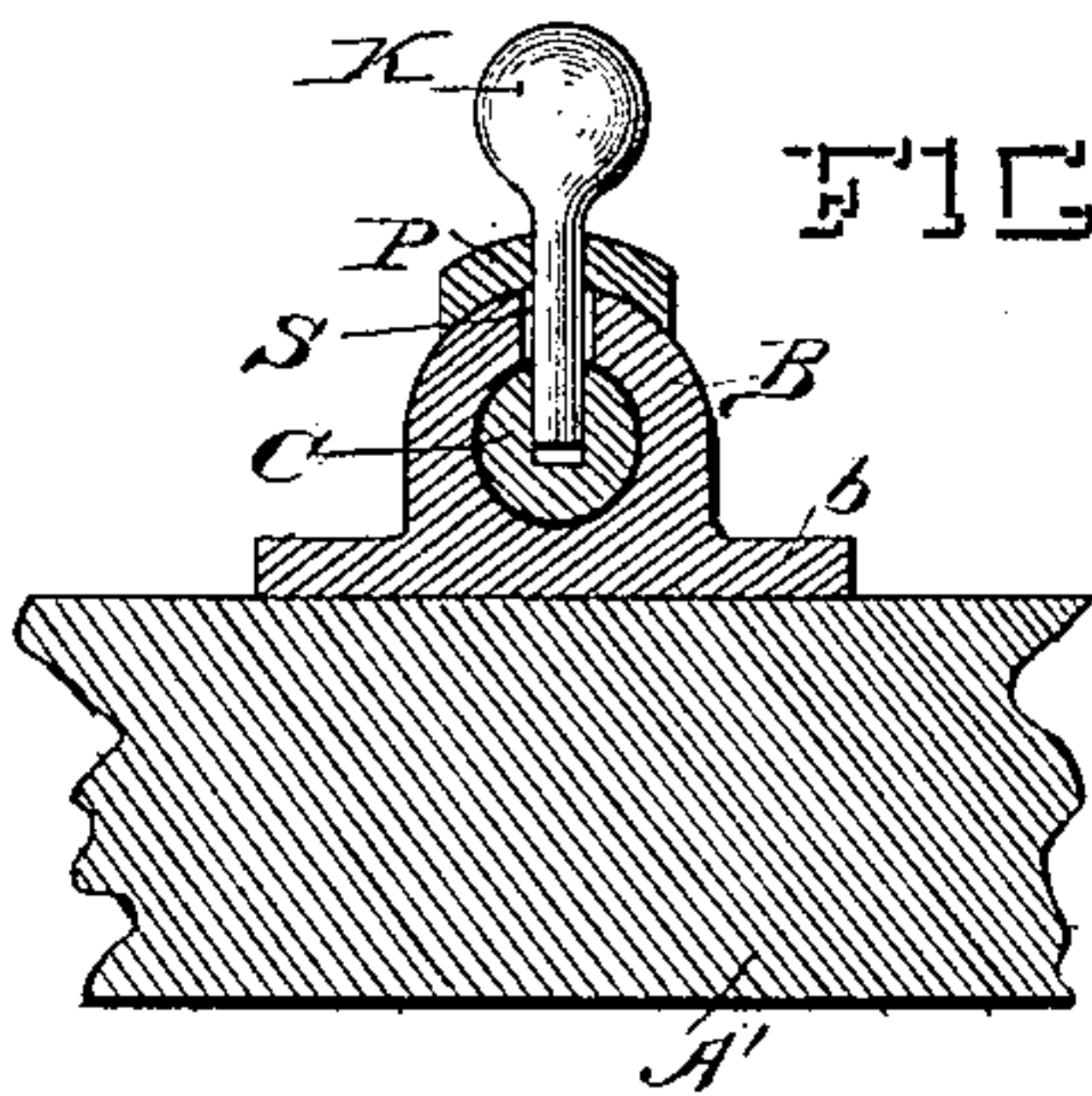
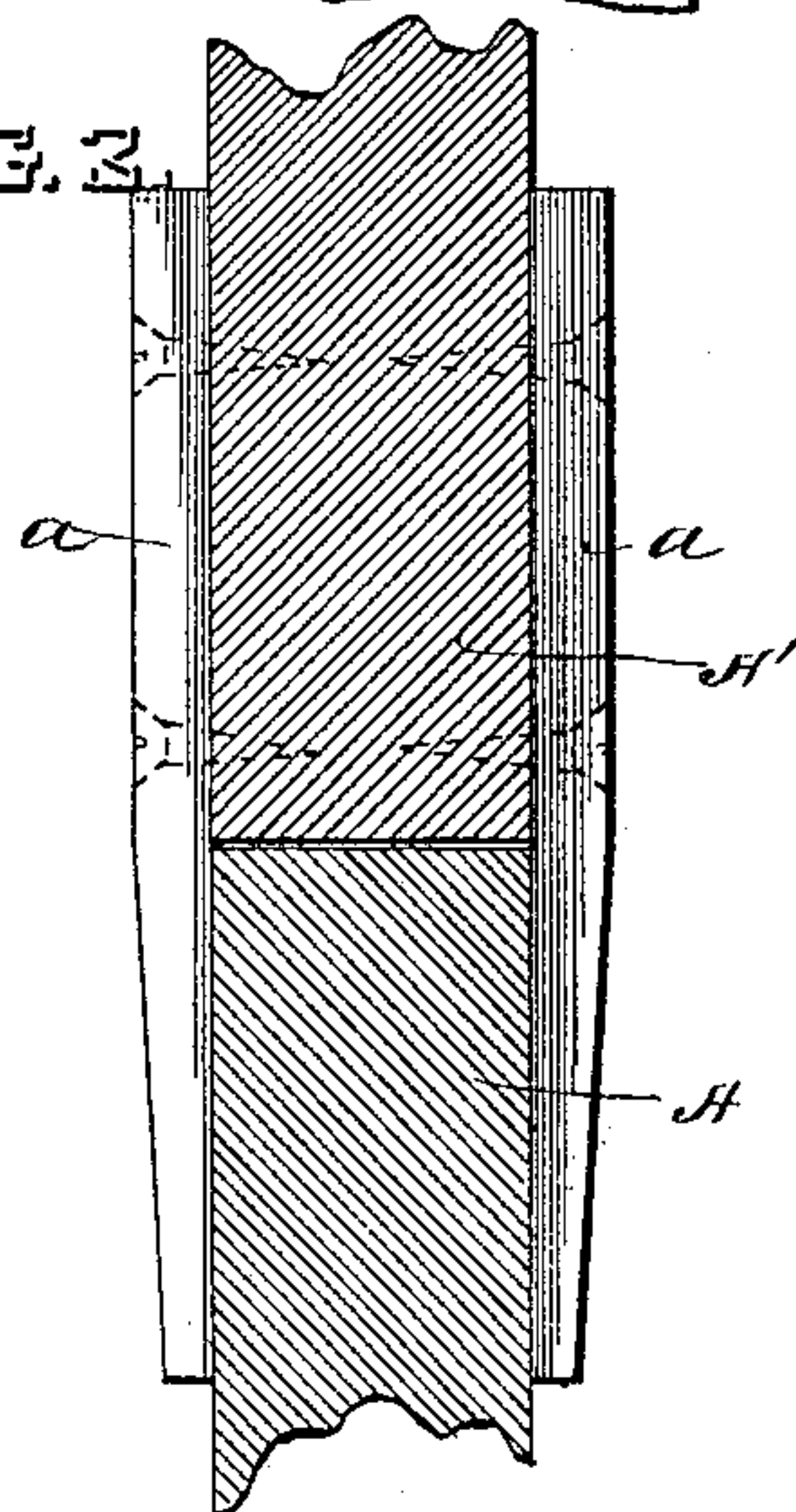


FIG. 2.

FIG. 3.



Witnesses,
Harry S. Rohrer
Geo. H. Lamar

Inventor,
Morris Schmucker
Wiles & Greene
Attorneys.

UNITED STATES PATENT OFFICE.

MORRIS SCHMUCKER, OF LANARK, ILLINOIS.

WAGON-BOX FASTENER.

SPECIFICATION forming part of Letters Patent No. 389,324, dated September 11, 1888.

Application filed April 7, 1888. Serial No. 269,977. (No model.)

To all whom it may concern:

Be it known that I, MORRIS SCHMUCKER, a resident of Lanark, in the county of Carroll and State of Illinois, have invented certain new and useful Improvements in Wagon-Box Fastenings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in fastenings for the detachable side-boards of wagon-boxes, and is fully described and explained in this specification, and shown in the accompanying drawings, in which—

Figure 1 is an elevation of my improved fastening in working position. Fig. 2 is a longitudinal section thereof through the line *x x*, Fig. 1. Fig. 3 is a section through the line *y y*, Fig. 1; and Fig. 4 is a transverse section of the fastening through the line *z z*, Fig. 1.

In the views, *A* is one of the sides of a wagon-box, and *A'* is a detachable side-board resting on the side *A* and held in the plane thereof by cleats or clamps *a*, Figs. 1 and 3, in the usual manner.

B is a bolt-case provided with a flange, *b*, for attaching it to the side-board *A'*, and *C* is a bolt lying within the bolt-case and sliding longitudinally therein. The bolt is provided with an operating-knob, *K*, the neck of which slides in a slot, *S*, cut longitudinally in the shell of the bolt-case, and a plate, *P*, lying outside the bolt-case, is attached to the knob *K* and covers the slot *S* in all positions of the bolt. Below the bolt-case, and forming a continuation thereof, is a catch, *B'*, fastened to the side *A'* of the box by means of flanges *b'*.

The bolt *C* is of such length that when it is at its lowest limit of motion in the bolt-case its lower end projects below the catch *B'*, and the lower end of the bolt is preferably bifurcated, as shown, and consists of two spring-legs, *c c*, each of which has at its extremity an external shoulder or projection, *c'*.

It is evident that when the parts are in the positions shown in the drawings the side-board *A'* can only be lifted from the side of the wagon-box upon pressing together the ends of the legs *c c* of the bolt, and that when the side-board is detached from the box its return to the position shown in Fig. 1 can easily be effected by passing the ends of said legs through the catch *B'*. The projections *c'* on the legs *c* are outwardly beveled, so as to be automati-

cally compressed by downward pressure in the catch *B'*.

The upper end of the bolt case is preferably closed, as shown, to prevent the admission of water to the case, and I prefer to make the lower end of the case overhang the upper end of the catch *B'* for the same reason. The lower end of the catch may, if desired, have the form indicated in dotted lines in Fig. 2, so that water running down the outside of the catch may drop from its edge instead of running inward to the bolt; but this is not important.

Evidently the legs *c c* of the bolt *C*, instead of being elastic, may be jointed to the bolt and pressed outward by a spring; but I prefer the form shown.

Having now described and explained my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the side *A* of a wagon-box and the detachable side-board *A'*, resting thereon, of the bolt-case secured upon the side-board, the catch secured upon said side in line with the bolt-case, and the bolt sliding in the case to pass through the catch, and having projections engaging the catch upon opposite sides.

2. The bolt-case *B*, secured upon the side-board *A'* and having its lower end beveled, as shown, the catch *B'*, secured upon the box side *A* and having its upper end adapted to fit the beveled lower end of the case, the bolt *C*, sliding in the case and having spring-legs *c*, the downwardly and inwardly sloping projections *c'*, engaging the lower edge of the catch and when in position lying below the catch to serve as a hold for the fingers in releasing the bolt.

3. The combination, with the box *A* and side-boards *A'*, of the cleats *a*, the case *B* upon the side-board, the catch *B'* upon the box, the bolt *C*, provided with spring-legs *c* and projections *c'*, to engage the catch, the knob *K*, for actuating the bolt, and the plate *P*, sliding with the knob and at all times covering the slot in which the knob-neck moves, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

MORRIS SCHMUCKER.

Witnesses:

JOHN D. RENNER,
N. R. ROSE.