

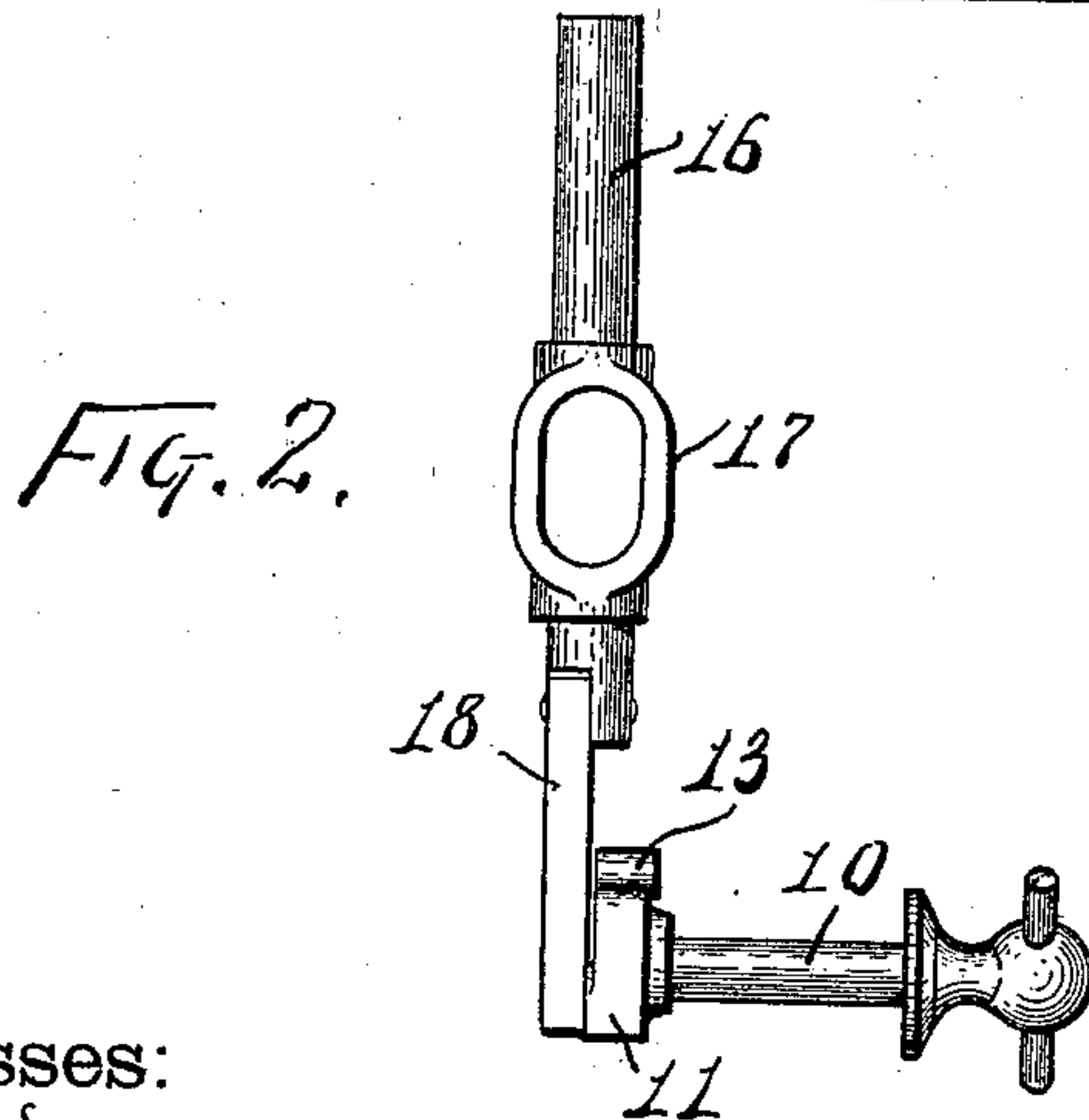
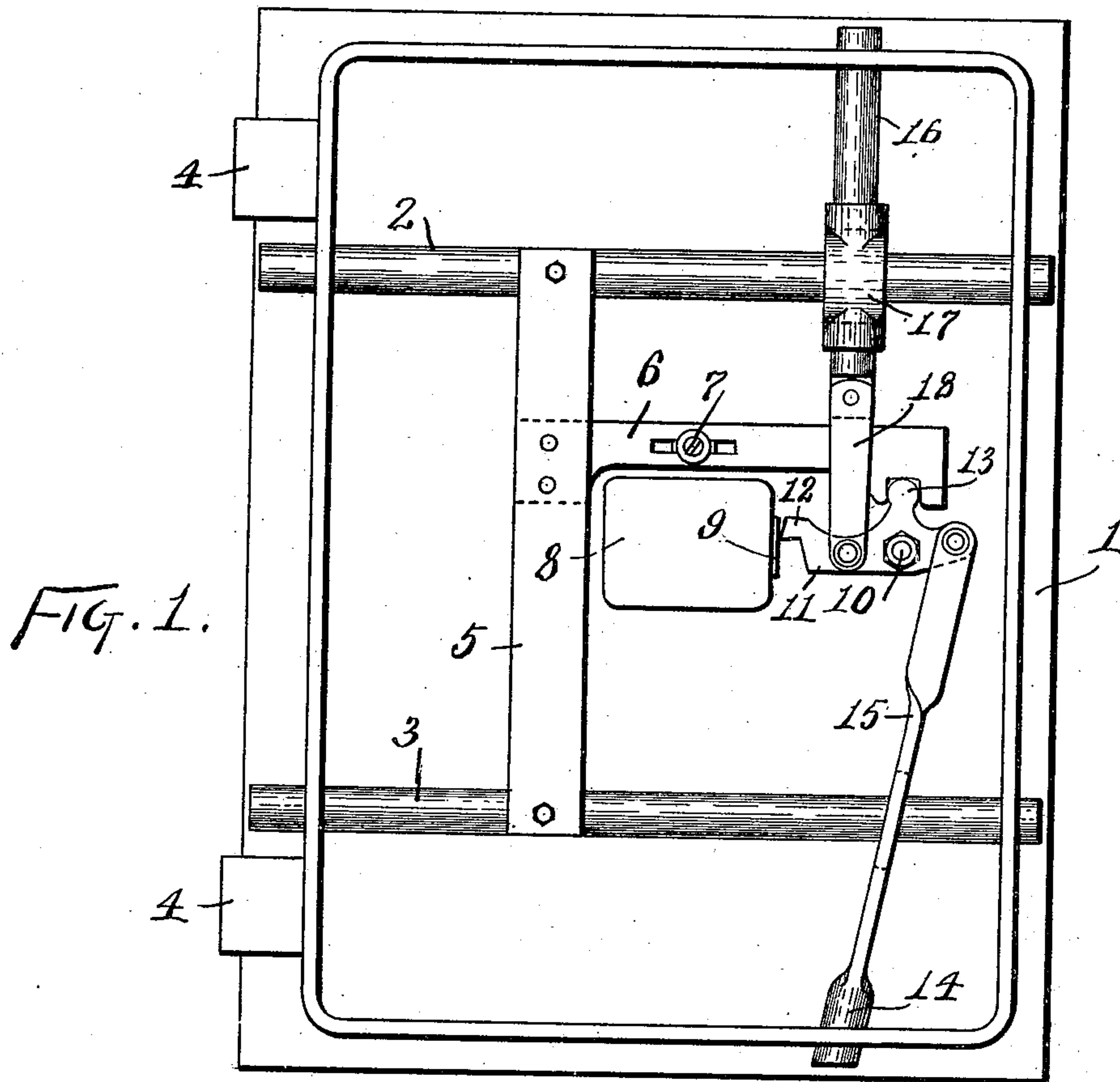
No. 621,122.

Patented Mar. 14, 1899.

**M. MOSLER.  
SAFE BOLT WORK.**

(Application filed Oct. 13, 1898.)

(No Model.)



Witnesses:  
E. R. Shipley.  
M. S. Belden.

Moses Mosler  
Inventor  
by James W. See  
Attorney

# UNITED STATES PATENT OFFICE.

MOSES MOSLER, OF CINCINNATI, OHIO.

## SAFE-BOLTWORK.

SPECIFICATION forming part of Letters Patent No. 621,122, dated March 14, 1899.

Application filed October 13, 1898. Serial No. 693,468. (No model.)

*To all whom it may concern:*

Be it known that I, MOSES MOSLER, of Cincinnati, Hamilton county, Ohio, have invented certain new and useful Improvements in Safe-Boltwork, of which the following is a specification.

This invention pertains to improvements in safe-boltwork, and will be readily understood from the following description, taken in connection with the accompanying drawings, in which—

Figure 1 is an elevation of the inner face of a safe-door provided with boltwork exemplifying my present improvement, while Fig. 2 is a side elevation of the upper bolt and its attachments.

In the drawings, 1 indicates the door, provided with the usual bolt-frame; 2, the upper horizontal bolt; 3, the lower horizontal bolt; 4, the hinges; 5, the carrier-bar rigidly connected to the two horizontal bolts; 6, the carrier-driver, projecting rigidly from the carrier-bar between and parallel with the horizontal bolts; 7, the stop-screw engaging a slot in driver 6 and limiting its stroke; 8, the lock; 9, the lock-bolt; 10, the bolt-spindle, all of the parts thus far referred to being of usual construction and arrangement; 11, a horizontal lever secured on the inner end of the bolt-spindle, so as to be oscillated by it, one horizontal arm of the lever projecting from the lock-spindle 10 toward the lock 8, while the other horizontal arm projects from the lock-spindle in the opposite direction; 12, a lug on the inner end of the lever 11 and adapted to sweep up and down in front of the end of the retracted lock-bolt 9 in the act of throwing the bolts from projected to withdrawn position and to rest over lock-bolt 9 when the door-bolts and the lock-bolt are in thrown position, whereby the door-bolts can be withdrawn only after the lock-bolt has been withdrawn; 13, a knuckle formed on the vertical third arm of the bolt-spindle 10, this knuckle engaging a knuckle-notch in driver 6, so that oscillations of lever 11 will shoot and retract horizontal bolts 2 and 3; 14, the lower vertical bolt; 15, a shank projecting upwardly from that bolt into pivotal connection with the

outer horizontal arm of lever 11; 16, the upper vertical bolt; 17, a slotted eye at an intermediate portion of bolt 16 where it intersects with bolt 2 to permit these two bolts to have their movements without interfering with each other, shank 15 being also slotted at its intersection with bolt 3, and 18 a link pivotally connected with the lower end of bolt 16 and the inner horizontal arm of lever 11.

The oscillation of lever 11, as produced through the medium of the bolt-spindle 10, brings about the projection and retraction of horizontal bolts 2 and 3 and simultaneously the projection and retraction of bolts 14 and 16. All the bolts are in the same vertical plane, and the slotted eyes in the vertical bolts permit the bolts to make their movements without interference. It is immaterial whether the slotted eye be formed through the body of the bolt or its shank, as in the case of the lower bolt 14, or be formed by an extra enlargement, as shown in connection with bolt 16. Link 18 permits bolt 16 to have a vertical motion practically uninfluenced by the fact that bolt 16 is operated from a pivot moving in the arc of a circle, and, if desired, such link may be applied to the lower vertical bolt also. Bolt 14 during its reciprocations obviously partakes of a lever-like motion, its bearing in the bolt-frame forming the fulcrum, and it is obvious that this bearing must be free enough to permit the reciprocation of the bolt without detrimental binding, and it is also obvious that the bolt must enter its locking-socket with sufficient freedom to be uninterfered with by this lever-like motion.

I claim as my invention—

In safe-boltwork, the combination, substantially as set forth, of a door, a bolt-frame, a vertical bolt and a horizontal bolt intersecting each other in a common vertical plane, one of said bolts being provided with a slotted eye surrounding the other of said bolts, and mechanism for throwing said bolts simultaneously.

MOSES MOSLER.

Witnesses:

SAMUEL B. BENJAMIN,  
GEORGE INSTON.