

No. 780,792.

PATENTED JAN. 24, 1905.

C. F. GREEN.

SECURING DEVICE FOR DETACHABLE COVERS.

APPLICATION FILED FEB. 10, 1904.

Fig. 1

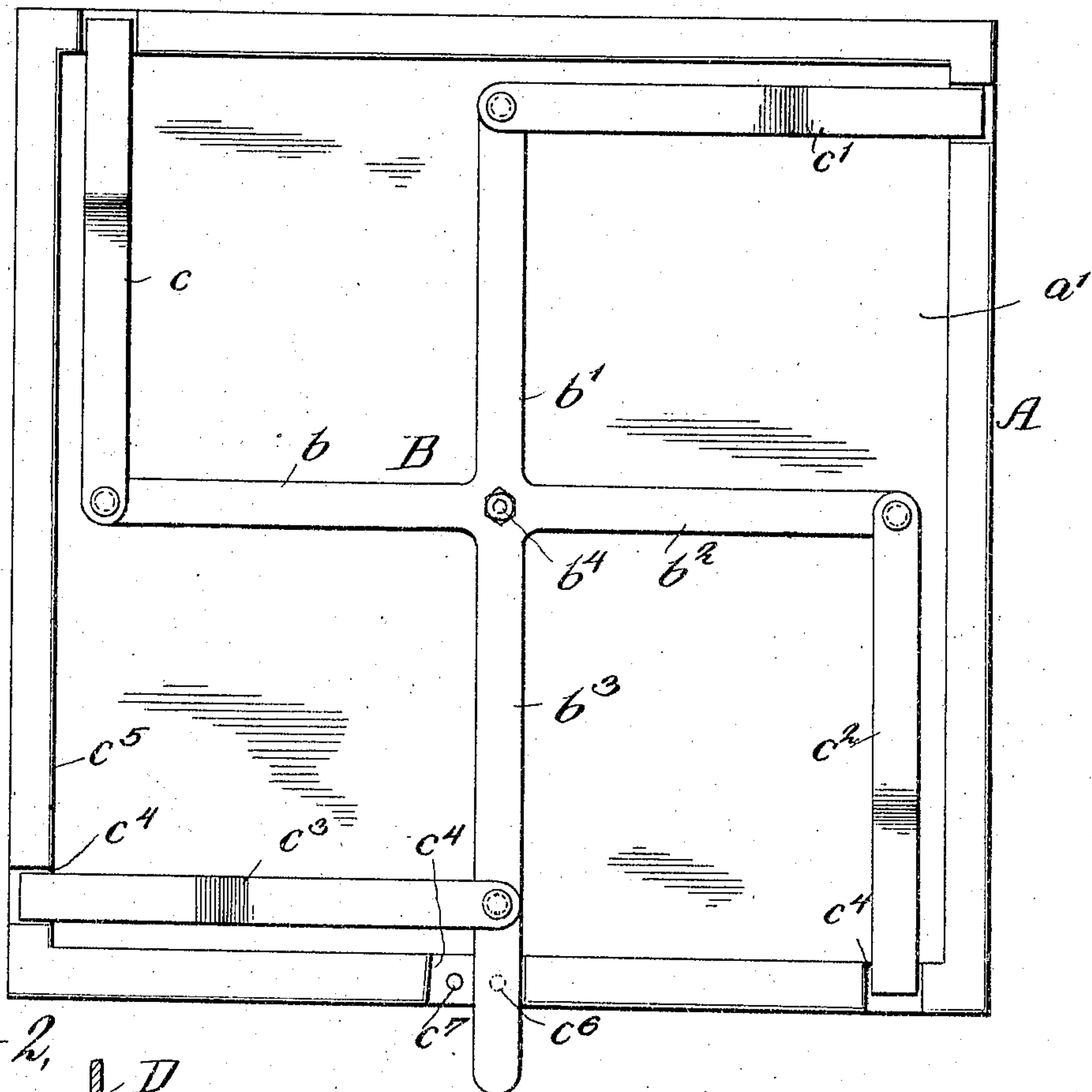


Fig. 2,

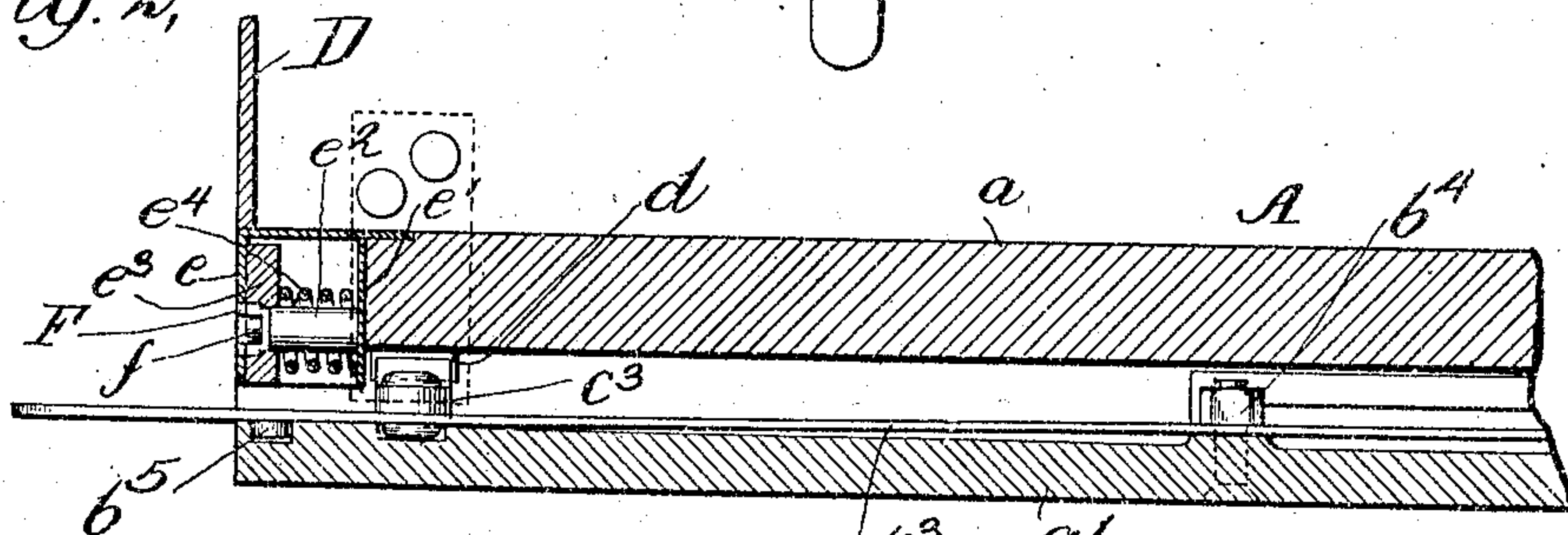


Fig. 3,

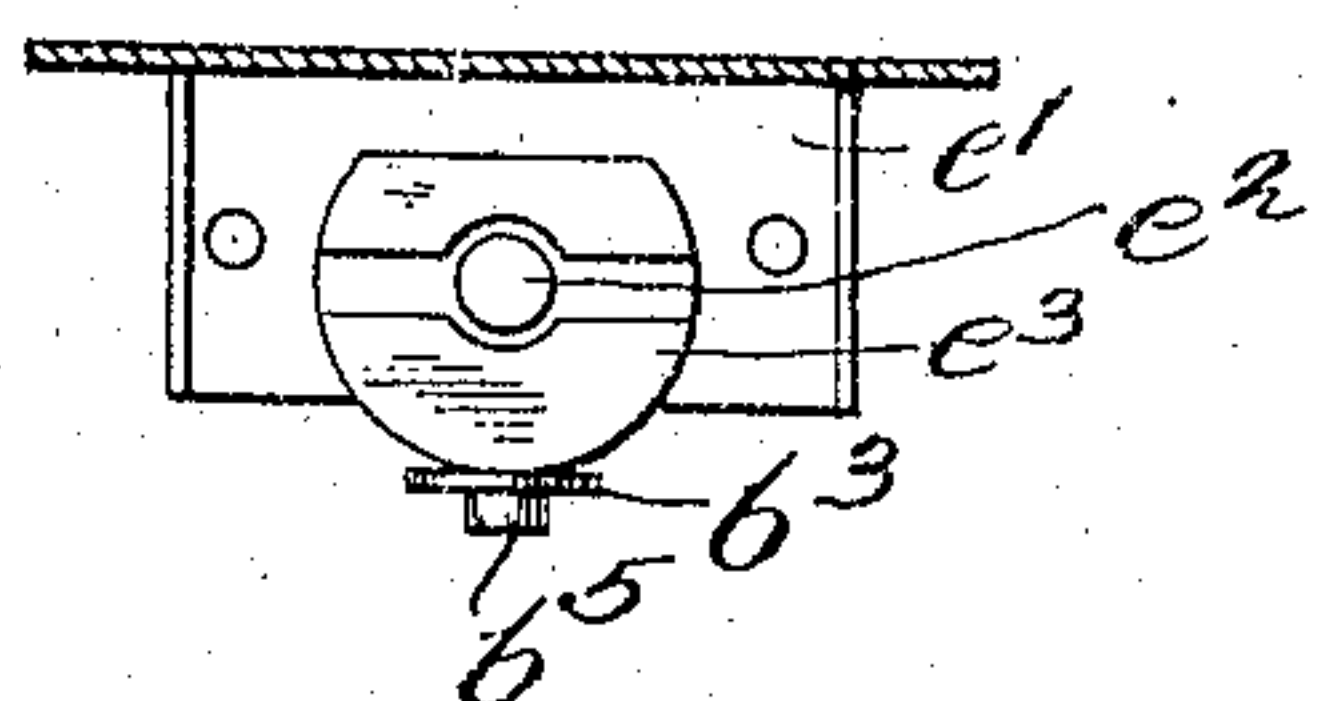
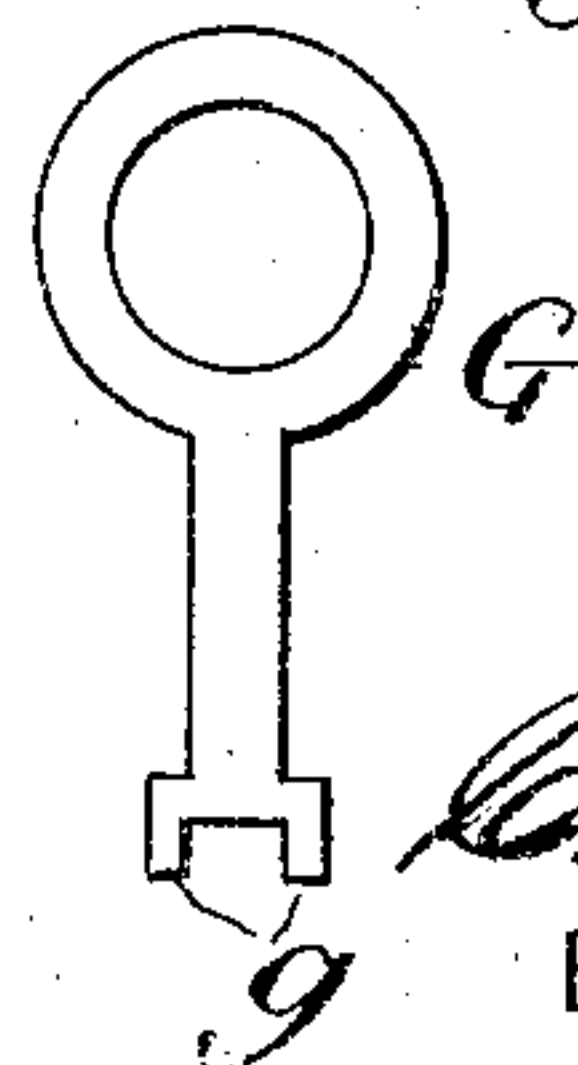


Fig. 4



WITNESSES:

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CHARLES F. GREEN, OF LONDON, ENGLAND, ASSIGNOR TO A. B. DICK COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SECURING DEVICE FOR DETACHABLE COVERS.

SPECIFICATION forming part of Letters Patent No. 780,792, dated January 24, 1905.

Application filed February 10, 1904. Serial No. 192,967.

To all whom it may concern:

Be it known that I, CHARLES FREDERICK GREEN, a subject of the King of Great Britain, residing at London, England, have invented certain new and useful Improvements in Securing Devices for Detachable Covers, of which the following is a specification.

Although capable of employment for a variety of other purposes, the invention is particularly designed for use in connection with type-writing and stencil duplicating machines in which are employed a base upon which the mechanism is mounted and a hood or cover commonly placed over such mechanism when the same is not in use to protect it from dust, &c.

The object of the invention is to provide a securing device which shall be simple and durable in construction, which may be readily and easily thrown to securing or releasing position, and which may when desired be locked to maintain the cover in position and the mechanism inclosed—as, for instance, for the purpose of transportation of the machine.

In carrying out the invention I provide the base which is designed to support the machine with a series of arms, preferably mounted upon a common pivot, and with each of these is connected a bolt which in one (inoperative) position lies directly below or within such base and in another (operative) position is extended by the operation of its connected arm into coaction with the cover placed upon or over such base to secure said cover and base together. The series of arms and bolts are operated by means of a lever with which is associated a lock operated by means of a suitable key, whereby said lever, said arms, and said bolts may when desired be securely fastened in engaging position.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a base with the upper section thereof removed. Fig. 2 is an enlarged section through said base and through a locking device overlying the same. Figs. 3 and 4 are detail views on the same scale as Fig. 2, illustrating the locking device above referred to.

Referring to the drawings, in which similar letters denote corresponding parts, A designates a base, here shown as comprising upper and lower members *a a'*.

B designates a spider having arms *b, b', b², and b³*, the arms *b b²* being at right angles to the arms *b' b³*. Said spider is mounted centrally upon a pivot *b⁴*, secured in the member *a'* or to both members *a* and *a'*, as desired. *c, c', c², and c³* designate locking-bolts connected to the free ends of the arms of said spider, the distant ends of said arms preferably operating in recesses or mortises *c⁴*, formed in the ledge *c⁵*, surrounding the member *a'* of the base. The inner (inoperative) position of said bolts is illustrated in Fig. 1. In their outer (operative) position the free ends of said bolts engage with the cover D, preferably by means of eyelets *d* formed therein, or, if desired, may coact with suitable lugs carried by the inner surface of said cover. Of the arms of said spider B one—as, for instance, the arm *b³*—is preferably curved downward, (and, if desired, may be made resilient,) and its under side is provided with a boss *b⁵*, adapted to coact with recesses *c⁶ c⁷*, formed, preferably, in that recess *c⁴* into and through which said arm *b³* projects. Obviously upon moving the free end of said arm *b³* laterally the spider B will be rocked upon its pivot *b⁴* and the bolts attached to its several arms thereby thrown to operative or inoperative position. To so move the arm *b³*, however, the free end thereof must first be raised to free its boss *b⁵* from coaction with one or the other of the recesses *c⁶ c⁷*. It will also be obvious that downward pressure upon the free end of such arm will by maintaining the said boss in coaction with one or the other of said recesses securely lock the parts in one or the other position. The locking mechanism is preferably carried by the upper member *a* of the base and comprises in the example selected for illustration the two plates *e e'*, the latter carrying the pin *e²*, locking-cam *e³*, and coil-spring *e⁴*, tending to force said cam outwardly into engagement with the plate *e*. The outer face of said cam is provided with the slot F, and with this coact the

lugs f , carried by said plate e , when the cam is in the position illustrated in Fig. 3. To operate the locking-cam, I provide a key G , having projecting teeth g . Upon introducing
 5 said teeth into the slot F and pressing the cam backward against the stress of the spring e^4 said cam is freed from the lugs f , whereupon it may be turned half-way by said key, thereby bringing said cam into contact with the arm
 10 b^3 and securely locking the boss b^5 in one or the other of the recesses c^6 or c^7 , as shown in Fig. 3. Upon the withdrawal of the key the cam is again forced outwardly by the spring e^4 , so that the lugs f will again engage with
 15 the slot F .

What I claim is—

1. Insecuring devices for detachable covers, the combination with a base, of a spider pivotally mounted thereon and comprising radial
 20 arms, bolts operated by said spider and coacting with a cover, an integral extension on one of said radial arms, extending outside the base for rocking said spider to throw said bolts to operative or inoperative position and a locking device coacting with said extension, sub-
 25 stantially as set forth.

2. Insecuring devices for detachable covers, the combination with a base, of a spider pivotally mounted thereon, bolts operated by said
 30 spider and coacting with a cover, an arm connected with said spider for rocking the same upon its pivot, and a boss carried by said arm and coacting with a recess in said base, substantially as set forth.

35 3. Insecuring devices for detachable covers,

the combination with a base, of a spider pivotally mounted thereon, bolts operated by said spider and coacting with a cover, an arm connected with said spider for rocking the same upon its pivot, a boss carried by said arm and
 40 coacting with a recess in said base, and a locking device coacting with said means, substantially as set forth.

4. Insecuring devices for detachable covers, the combination with a base, of a spider pivotally mounted thereon, bolts operated by said
 45 spider and coacting with a cover, an arm connected with said spider for rocking the same upon its pivot, a boss carried by said arm and coacting with a recess in said base, a rotary
 50 cam carried by said cover and coacting with said arm, and means for actuating said cam, substantially as set forth.

5. Insecuring devices for detachable covers, the combination with a base, of a spider pivotally mounted thereon and having outwardly-
 55 extending arms one of which is provided with a boss coacting with a recess in said base, bolts connected with said arms and coacting with a
 60 cover, means for rocking said spider upon its pivotal point, and a locking device coöperating with said boss-carrying arm to lock said boss in engagement with said recess, substantially as set forth.

This specification signed and witnessed this
 28th day of January, 1904.

CHAS. F. GREEN.

Witnesses:

H. D. JAMESON,
 F. L. RAND.