

J. H. HEWITT.
 LOOSE LEAF BOOK, TEMPORARY BINDER, FILE, AND THE LIKE.
 APPLICATION FILED MAY 17, 1907.

944,554.

Patented Dec. 28, 1909.

2 SHEETS—SHEET 1.

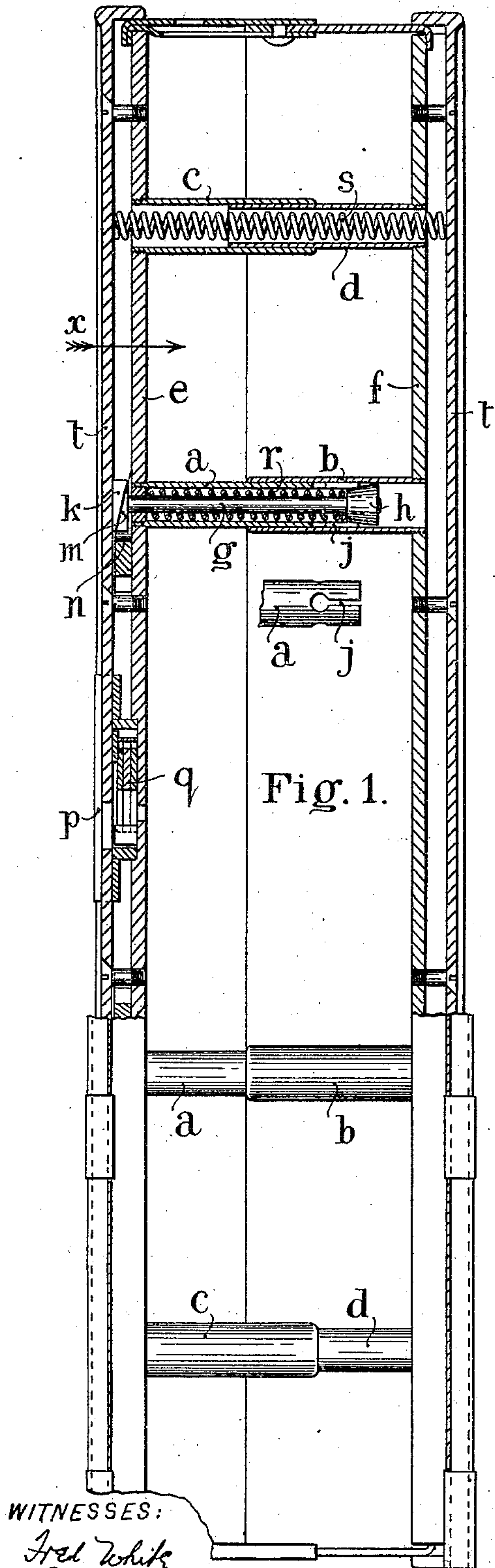


Fig. 1.

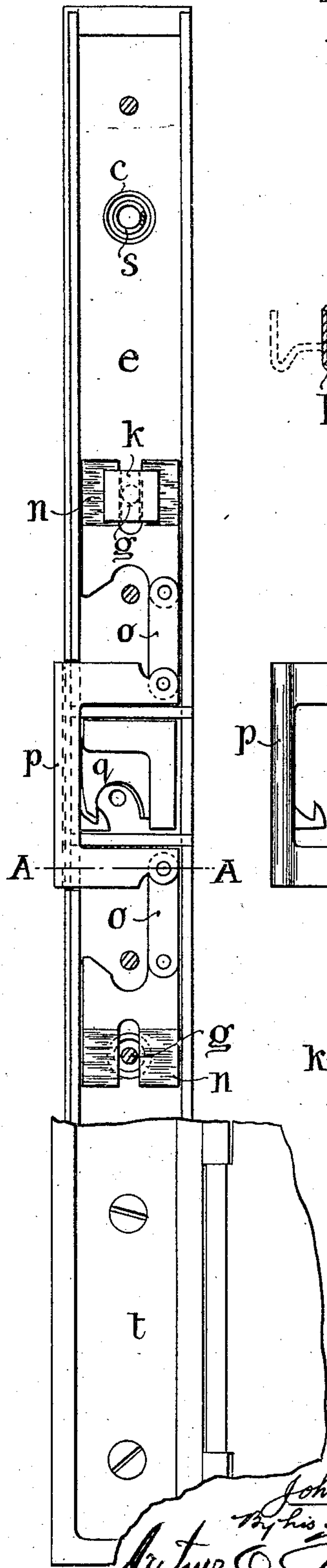


Fig. 2.

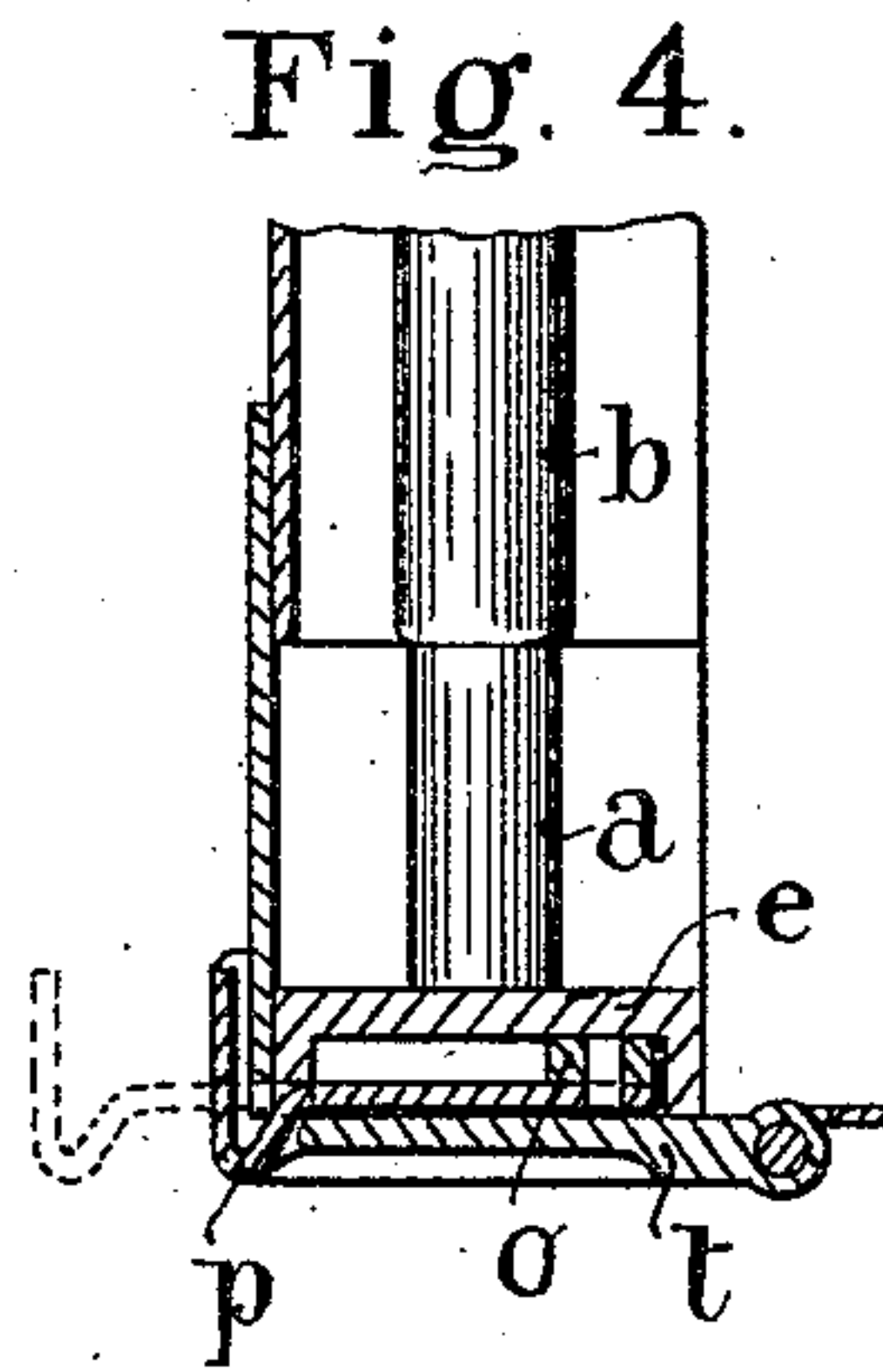


Fig. 3.

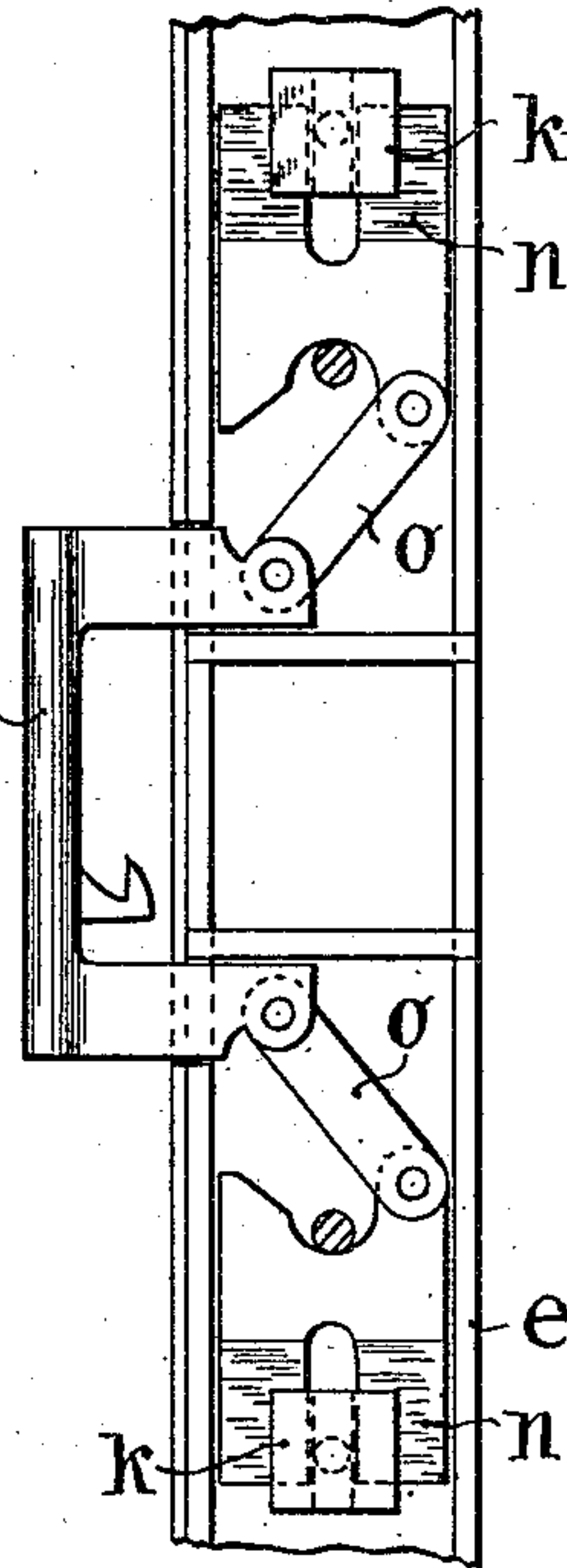


Fig. 4.

WITNESSES:
 Fred White
 René Duine

INVENTOR:
 John Herbert Hewitt,
 By his Attorneys
 Arthur C. Kaser & Werna

J. H. HEWITT.
LOOSE LEAF BOOK, TEMPORARY BINDER, FILE, AND THE LIKE.
APPLICATION FILED MAY 17, 1907.

944,554.

Patented Dec. 28, 1909.

2 SHEETS—SHEET 2.

Fig. 5.

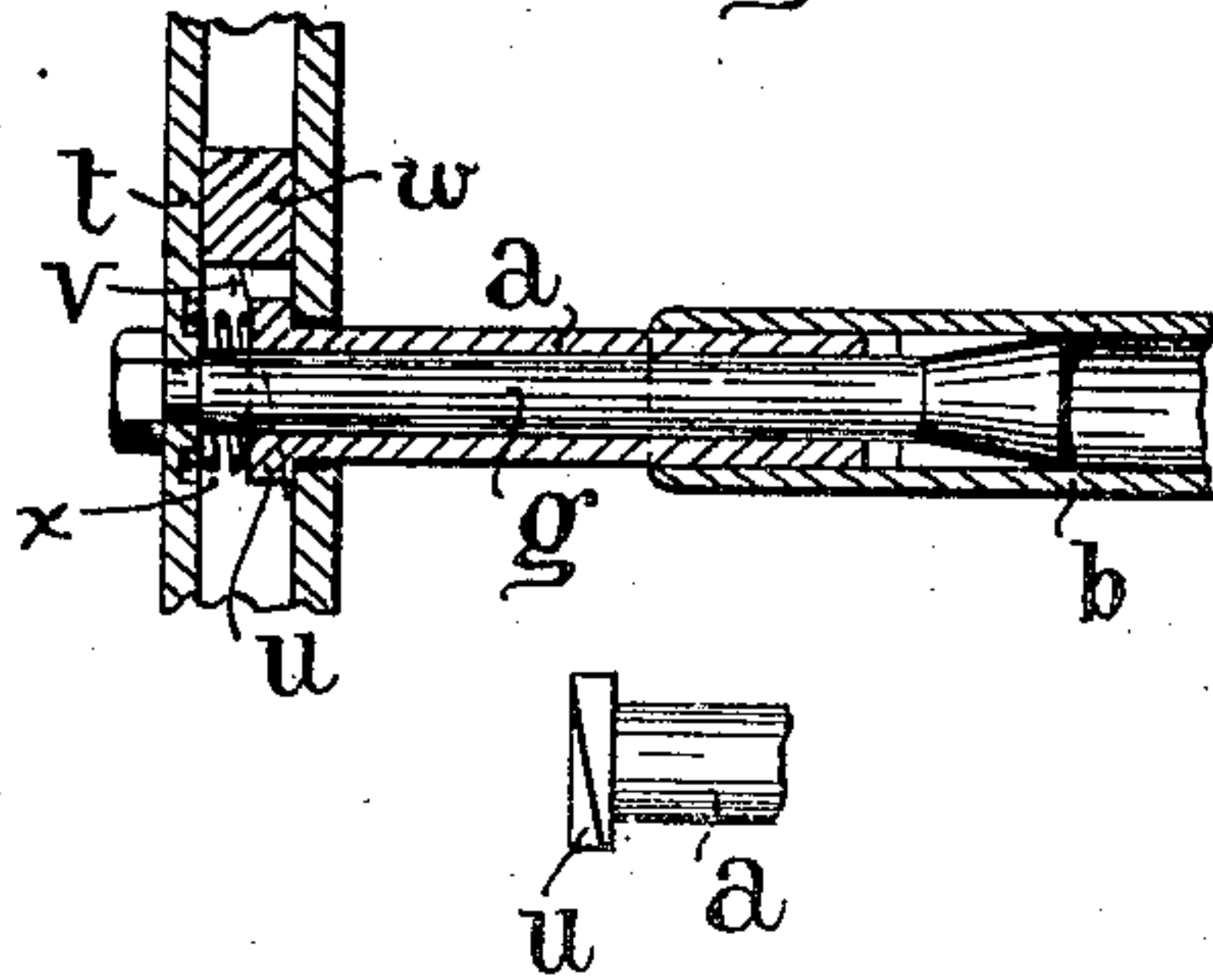
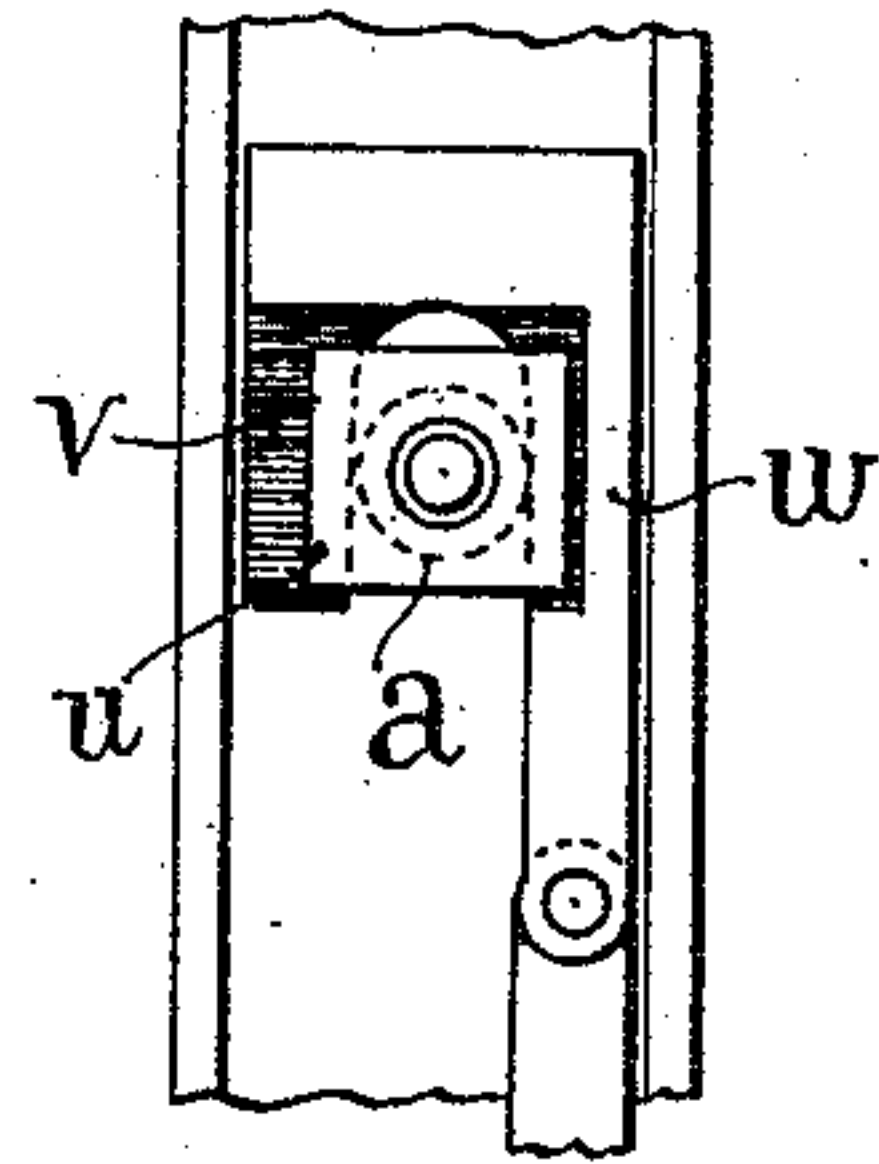


Fig. 6.



WITNESSES:

Ired White
Rene Quine

INVENTOR:

John Herbert Hewitt,
By his Attorneys

Arthur C. Fraser & Son

UNITED STATES PATENT OFFICE.

JOHN HERBERT HEWITT, OF EDGBASTON, BIRMINGHAM, ENGLAND, ASSIGNOR OF
ONE-HALF TO JOHN WALKER, JR., OF LONDON, ENGLAND.

LOOSE-LEAF BOOK, TEMPORARY BINDER, FILE, AND THE LIKE.

944,554.

Specification of Letters Patent.

Patented Dec. 28, 1909.

Application filed May 17, 1907. Serial No. 374,288.

To all whom it may concern:

Be it known that I, JOHN HERBERT HEWITT, of 7 Priory road, Edgbaston, Birmingham, England, engineer, have invented certain new and useful Improvements in and Relating to Loose-Leaf Books, Temporary Binders, Files, and the Like, of which the following is a specification.

This invention relates to loose leaf books, temporary binders, files and the like of the type having telescopic filing members adapted to be locked against relative movement whereby the papers or the like are clamped in position and has for its object to provide an improved construction thereof.

In a loose leaf book, temporary binder, file or the like made in accordance with this invention the telescopic filing members are adapted to be held together in any desired position by the expression of one of the members so as to grip the other member by frictional contact.

Referring now to the accompanying drawings Figure 1 is a face view partly in section of one form of device constructed in accordance with this invention; Fig. 2 is a view of Fig. 1 looking in the direction of the arrow X with the cover removed; Fig. 3 is a part similar view of Fig. 2 showing the locking device in the unlocked position; Fig. 4 is a section on line A—A of Fig. 2; Fig. 5 is a part sectional elevation similar to Fig. 1 showing a modified form of this invention; Fig. 6 is a side elevation with cover removed.

$a a$ and $b b$ are main and $c c$ and $d d$ are auxiliary telescopic filing members secured to plates $e f$ as usual. Each of the inner filing members $a a$ is hollow and disposed therein and passing through the plates e is a rod g having a conical head h . The free end of each of the members $a a$ is split as at j and is preferably cone-shaped internally. The upper ends of the rods $g g$ are provided with any known means for imparting longitudinal motion to said rods so that when the conical heads $h h$ are forced into the split ends of the filing members $a a$ said members are expressed and grip the corresponding outer members $b b$ by frictional contact thereby holding said telescopic members against relative movement. For instance each of the rods may have a head k with an inclined face m adapted to be engaged by a correspondingly inclined cam n slid along the plate e . The cams n may

receive their motion through toggle links $o o$ when a handle p is pulled out.

q is a lock for retaining the handle p in its "closed" position.

$r r$ are springs coiled within the members $a a$ to disengage the conical heads $h h$ from the members $a a$ when the heads $k k$ of the rods $g g$ are released, and $s s$ are springs coiled within the filing members $d d$ to force apart the plates e and f when the frictional contact between the members $a a$ and $b b$ is released.

$t t$ are covers suitably secured to the plates e and f .

It is not strictly necessary to use the coiled springs r since the split ends of the inner tubular members have sufficient spring in themselves to force out the cones when the cams are released.

In the modified form shown in Figs. 5 and 6 the rod g is secured to the cover t and the tubular filing member a is free to slide on said rod. In this form any attempt to pull apart the plates e and f further expresses the member a and increases its frictional grip on the member b . To release the grip the member a is provided with a head u having inclined faces adapted to be engaged by an inclined surface v on a member w sliding on the plate e , so that when the member w is slid the inclined surface v engaging under the head u , lifts the split end of the filing member a away from the conical head h against the action of a spring x .

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

1. A loose leaf book, temporary binder, file or the like having members moving relatively, one of which is adapted to frictionally clutch the other, a rod adapted to move axially and non-rotatively to operate said clutching member, and a cam for displacing said rod non-rotatively to frictionally clutch said members.

2. A loose leaf book, temporary binder, file or the like having members moving relatively, one of which is adapted to frictionally clutch the other, a rod adapted to move axially and non-rotatively to operate said clutching member, a cam for displacing said rod non-rotatively to frictionally clutch said members, and a sliding member adapted to operate said cam.

3. A loose leaf book, temporary binder,

file or the like having a plurality of pairs of members, the members of each pair moving relatively and one being adapted to frictionally clutch the other, a plurality of rods adapted to move axially and non-rotatively to operate said clutching members, cams for displacing said rods non-rotatively to frictionally clutch said members, and means for simultaneously operating said cams.

4. A loose leaf book, temporary binder, file or the like having a plurality of pairs of members, the members of each pair moving relatively and one being adapted to frictionally clutch the other, a plurality of rods adapted to move axially and non-rotatively to operate said clutching members, cams for displacing said rods non-rotatively to frictionally clutch said members and a single means for operating said cams.

5. A loose leaf book, temporary binder, file or the like having a plurality of pairs of members, the members of each pair moving relatively and one being adapted to frictionally clutch the other, a plurality of rods adapted to move axially and non-rotatively to operate said clutching members, cams for displacing said rods non-rotatively to frictionally clutch said members, sliding members adapted to operate said cams and a single means for operating said sliding members.

6. A loose leaf book, temporary binder, file or the like comprising two plates, hollow inner main filing members mounted on one plate and hollow outer main filing members mounted on the other plate, split ends to said inner filing members, a rod disposed in each of said inner filing members and adapted to be slid therein, a conical head to each of said rods, cams for forcing said conical heads into the split ends of the inner filing members, and means for simultaneously operating said cams, substantially as set forth.

7. A loose leaf book, temporary binder, file or the like comprising two plates, hollow inner main filing members mounted on one plate and hollow outer main filing members mounted on the other plate, split ends to said inner filing members, a rod disposed in each of said inner filing members and adapted to be slid therein, a conical head on one end of each of said rods, a head having inclined surfaces on the other end of each of said rods, and cams slid on one of said plates and adapted to coact with said inclined surfaces whereby said conical heads are simultaneously forced into the split ends of the inner filing members, substantially as set forth.

8. A loose leaf book, temporary binder, file or the like comprising two plates, hollow inner main filing members mounted on one plate and hollow outer main filing members mounted on the other plate, split ends

to said inner filing members, a rod disposed in each of said inner filing members and adapted to be slid therein, a conical head on one end of each of said rods, a head having inclined surfaces on the other end of each of said rods, and cams slid on one of said plates and adapted to coact with said inclined surfaces whereby said conical heads are simultaneously forced into the split ends of the inner filing members, toggle links connecting said cams to a handle adapted to be retained in its closed position by a lock and spring coiled within the hollow inner filing members and adapted to disengage the conical heads from the split ends of said hollow inner filing members when said cams are operated, substantially as set forth.

9. A loose leaf book, temporary binder, file, or the like, having a plurality of pairs of members, the member of each pair moving relatively and one being adapted to frictionally clutch the other, a plurality of rods adapted to move axially and non-rotatively to operate the said clutching members, cams for displacing the said rods non-rotatively to frictionally clutch the said members, and toggle links connecting the said cams to a handle.

10. A loose leaf book, temporary binder, file, or the like, having a plurality of pairs of members, the members of each pair moving relatively and one being adapted to frictionally clutch the other, a plurality of rods adapted to move axially and non-rotatively to operate the said clutching members, cams for displacing the said rods non-rotatively to frictionally clutch the said members, toggle links connecting the said cams to a handle, and a lock adapted to retain the toggle in its closed position.

11. A loose leaf book, temporary binder, file, or the like, comprising two plates, hollow inner main filing members mounted on one plate, hollow outer main filing members mounted on the other plate, split ends to the said inner filing members, a rod disposed in each of the said inner filing members and adapted to be slid therein, a conical head to each of the said rods, a head having inclined surfaces in the other end of the said rods, cams slidable on one of the said plates and adapted to coact with the said inclined surfaces, and toggle links connecting the said cams to a handle.

12. A loose leaf book, temporary binder, file, or the like, comprising two plates, hollow inner main filing members mounted on one plate, hollow outer main filing members mounted on the other plate, split ends to the said inner filing members, a rod disposed in each of the said inner filing members, a conical head on each of the said rods, a head having inclined surfaces on the other end of the said rods, cams slidable on one of the said plates and adapted to coact with the

said inclined surfaces, toggle links connecting the same cams to a handle, and a lock adapted to retain the toggle in its closed position.

5 13. A loose leaf book, temporary binder, file, or the like, comprising two plates, hollow inner main filing members mounted on one plate, hollow outer main filing members mounted on the other plate, split ends to the
10 said inner filing members, a rod disposed in each of the said inner filing members and adapted to be slid therein, a conical head to each of the said rods, a head having inclined surfaces in the other end of the said
15 rods, cams slidable on one of the said plates and adapted to coact with the said inclined surfaces, toggle links connecting the said cams to a handle, a lock adapted to retain the toggle in its closed position, and springs
20 coiled within the hollow inner filing members.

14. A loose leaf book, temporary binder, file, or the like, comprising two plates, hollow inner main filing members mounted on
25 one plate, hollow outer main filing members mounted on the other plate, split ends to said inner filing members, a rod disposed in each

of the said inner filing members and adapted to be slid therein, a conical head to each of the said rods, cams for forcing the said
30 conical heads into the split ends of the inner filing members, and toggle links connecting the said cams to a handle.

15. A loose leaf book, temporary binder, file, or the like, comprising two plates, hollow inner main filing members mounted on
35 one plate, hollow outer main filing members mounted on the other plate, split ends to the said inner filing members, a rod disposed in each of the said inner filing members and
40 adapted to be slid therein, a conical head to each of the said rods, cams for forcing the said conical heads into the split ends of the inner filing members, toggle links connecting the said
45 cams to a handle, and a lock adapted to retain the toggle in its closed position.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

JOHN HERBERT HEWITT.

Witnesses:

JOHN HEWITT,
ARTHUR ROUND.