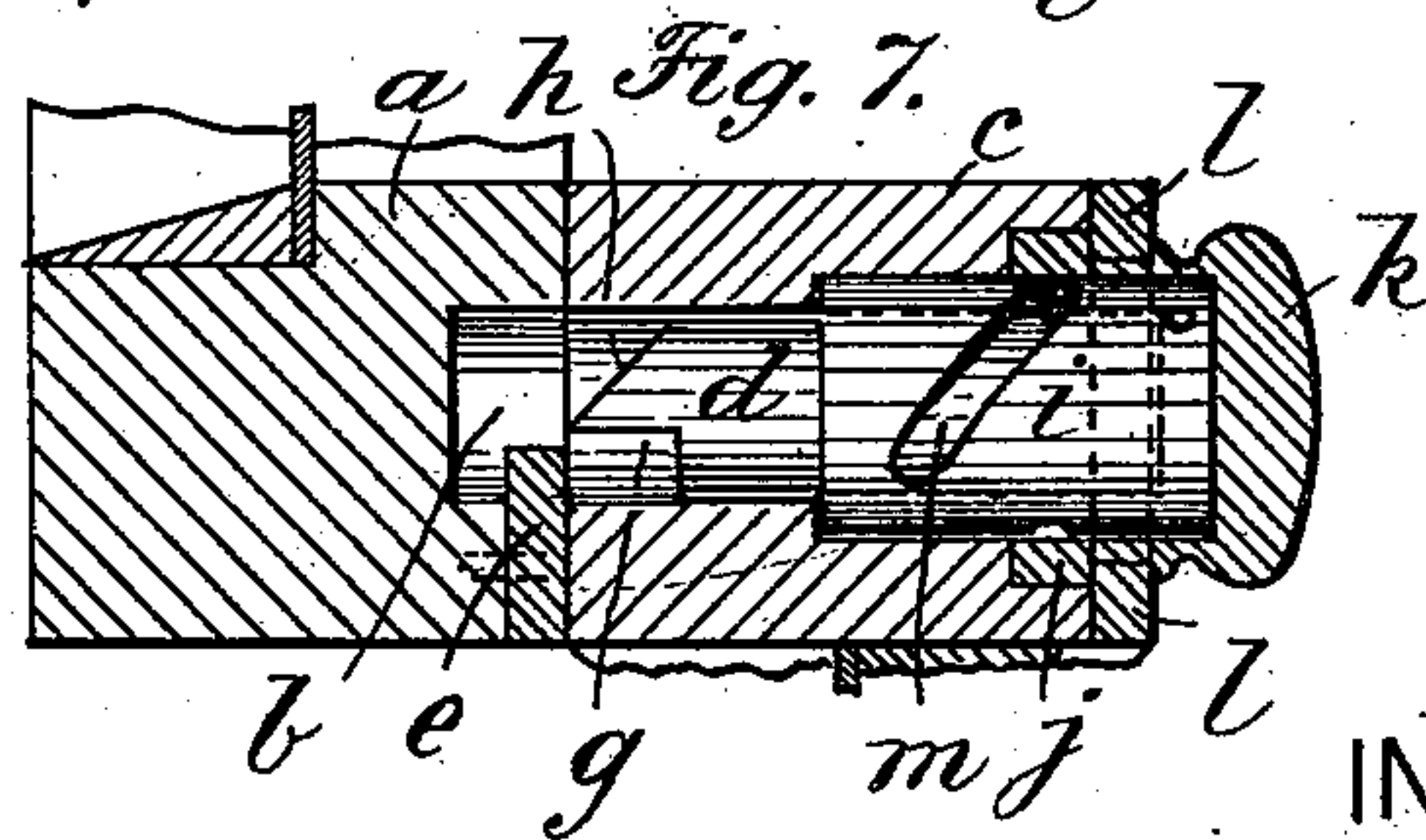
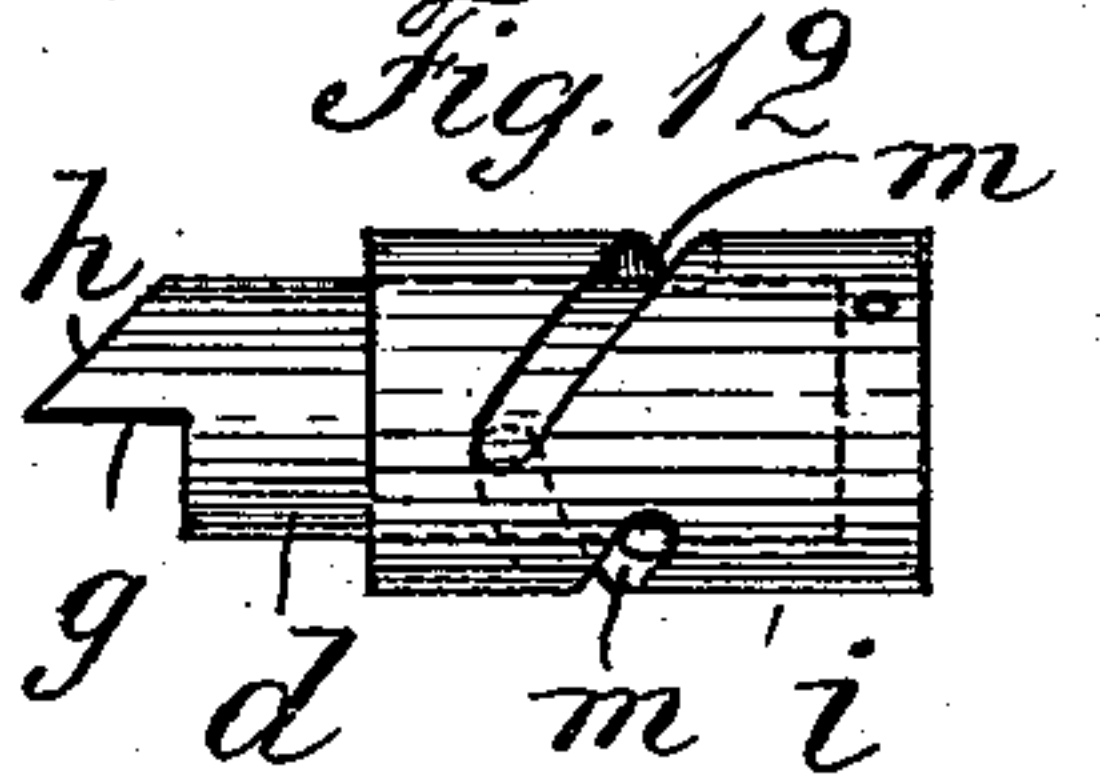
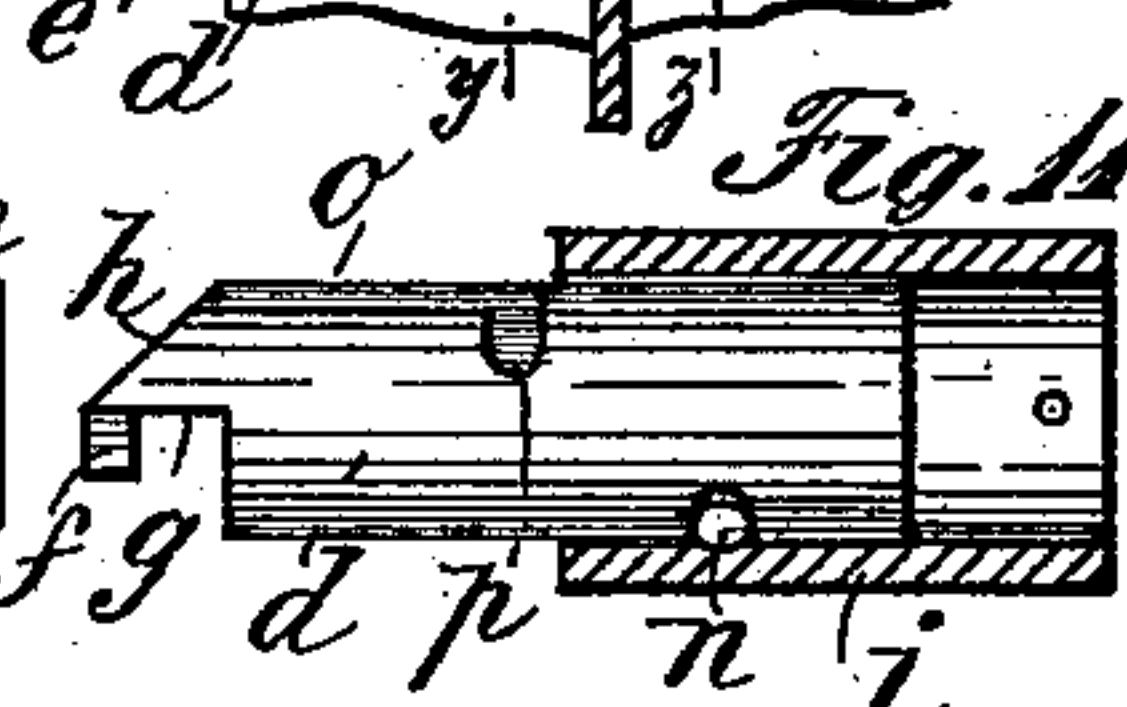
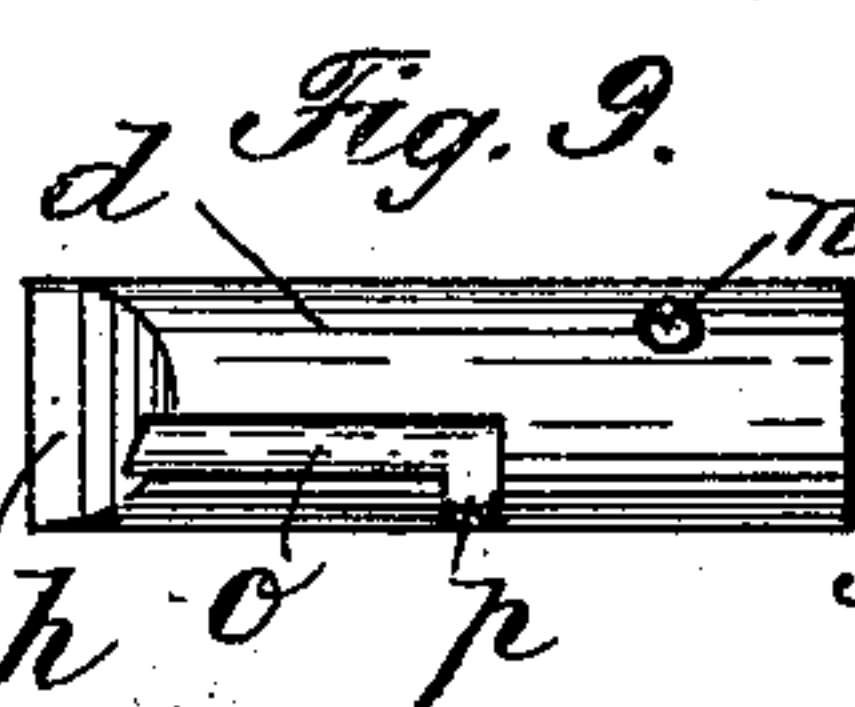
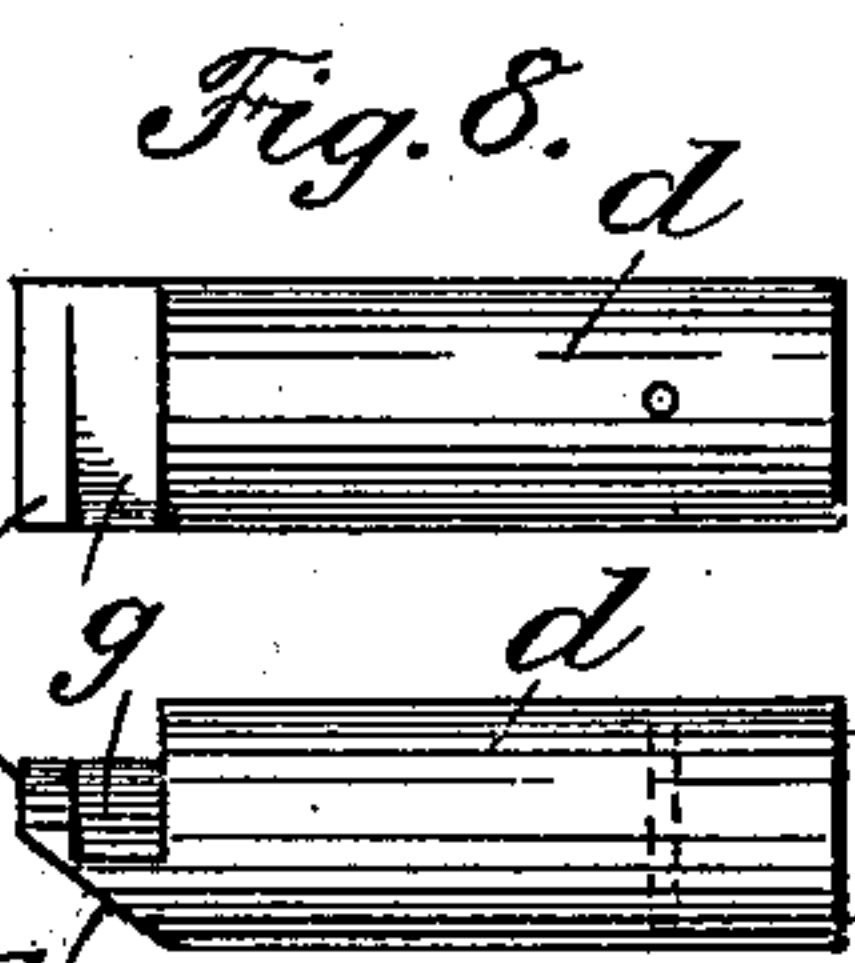
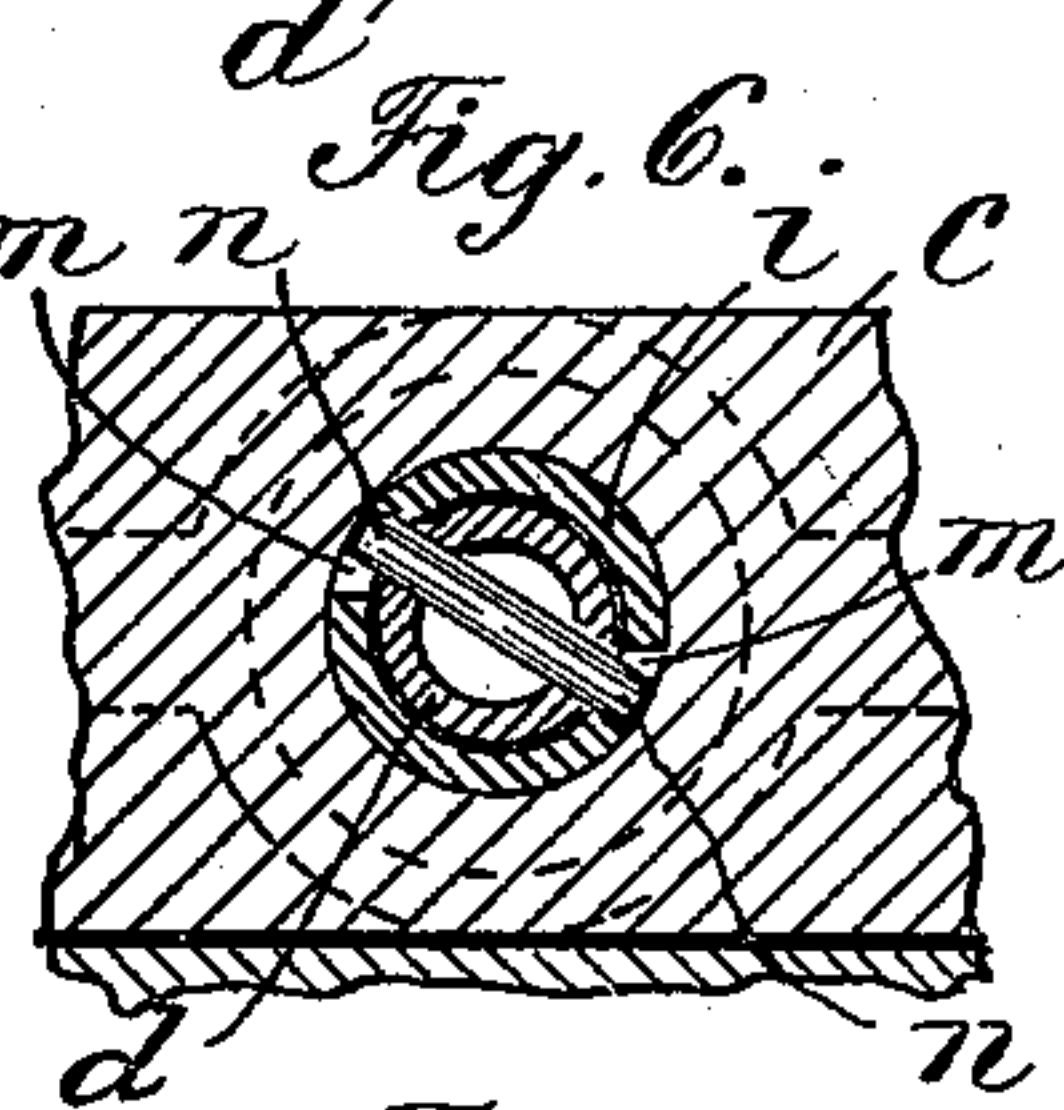
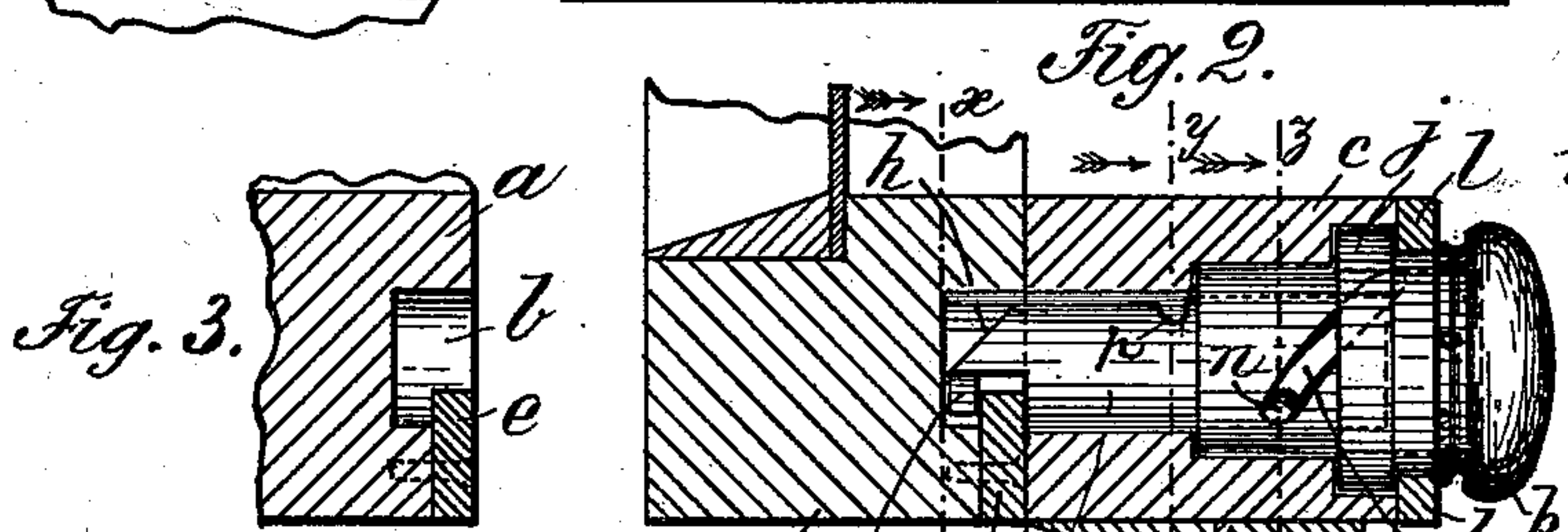
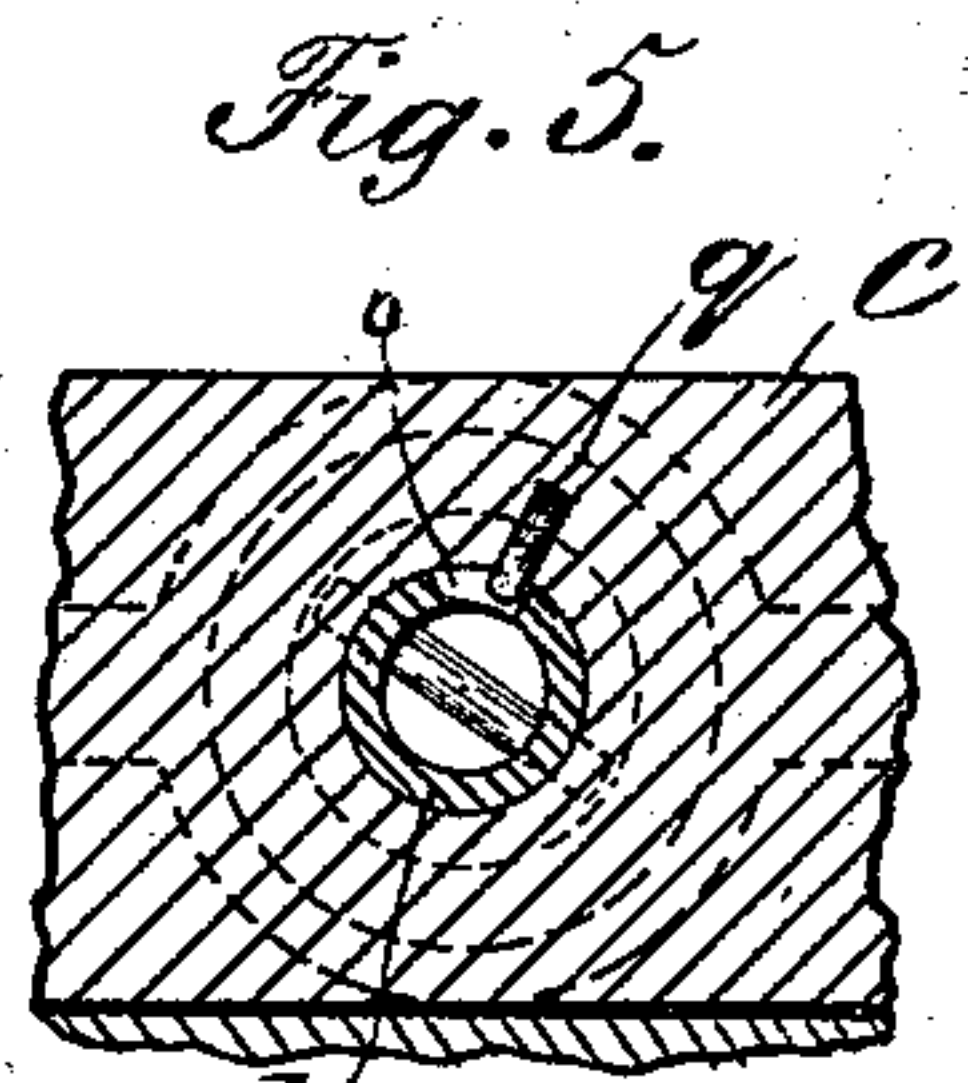
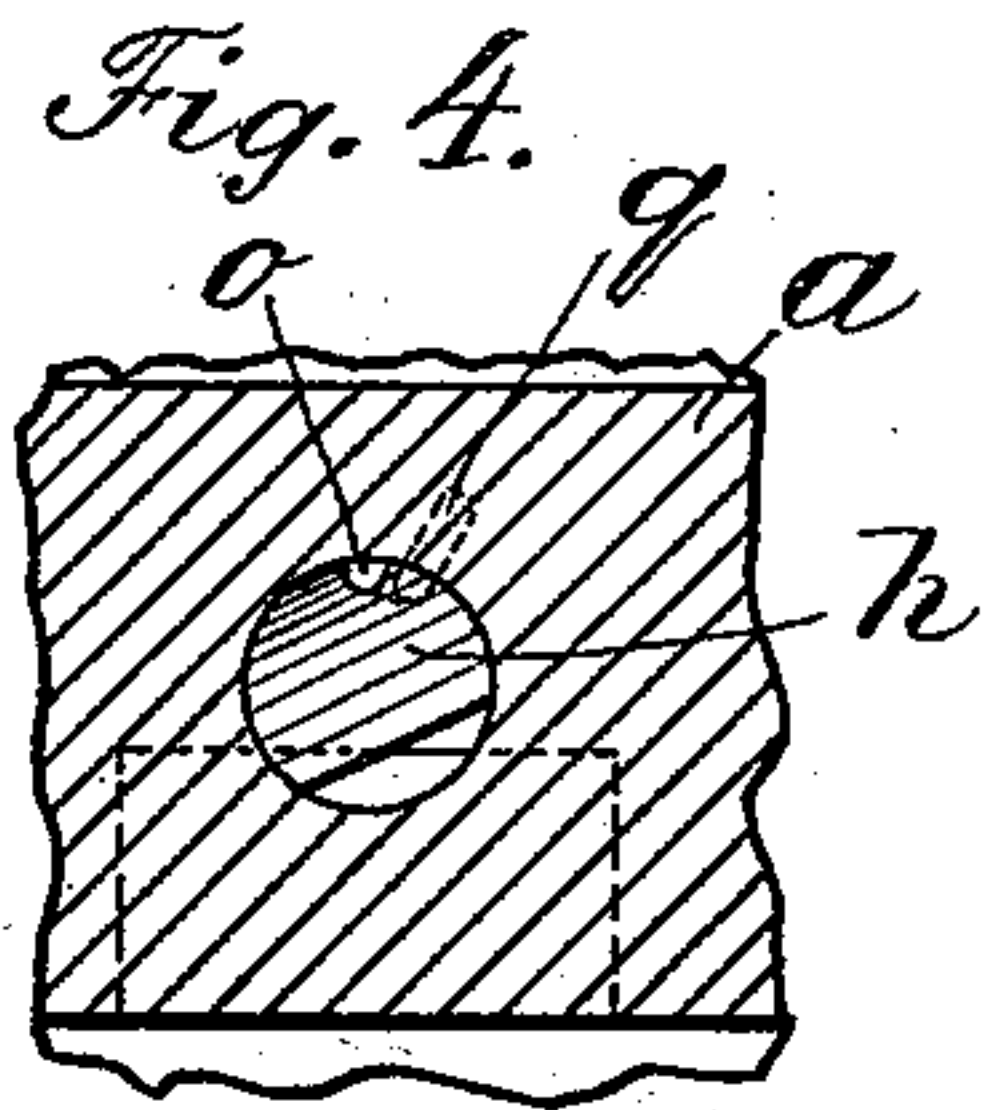
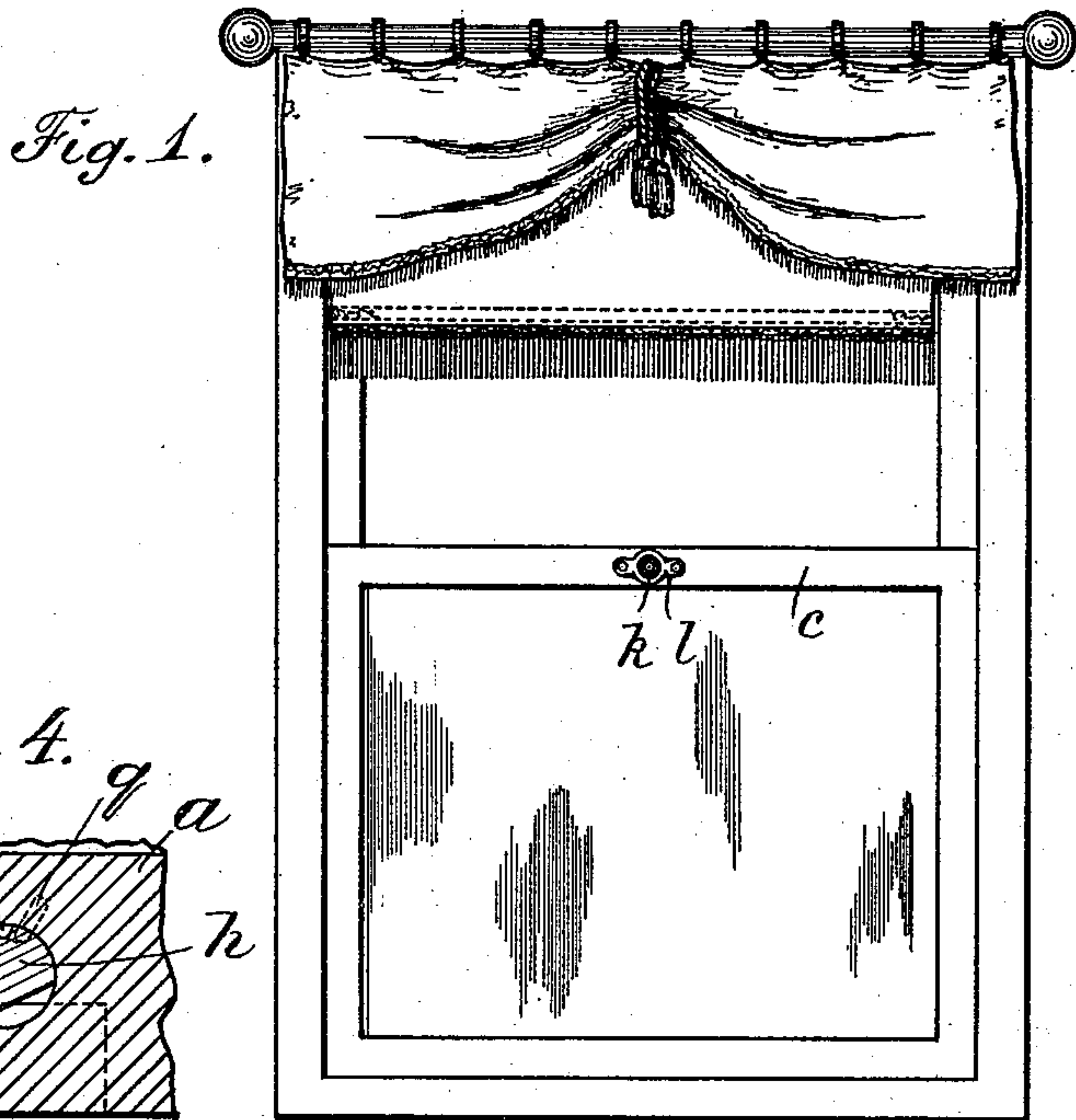


(No Model.)

T. EUPHRAT.
FASTENER FOR MEETING RAILS OF SASHES.

No. 550,221.

Patented Nov. 19, 1895.



WITNESSES.

Ernst Lundgren

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INVENTOR.

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By A. P. Thayer
att'y

UNITED STATES PATENT OFFICE.

THEOPHILE EUPHRAT, OF DARIEN, CONNECTICUT.

FASTENER FOR MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 550,221, dated November 19, 1895.

Application filed July 18, 1895. Serial No. 556,365. (No model.)

To all whom it may concern:

Be it known that I, THEOPHILE EUPHRAT, a citizen of the United States, and a resident of Darien, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Sash-Fasteners, of which the following is a specification.

The object of my invention is to provide an improved fastener for securing the meeting-rails of the upper and lower sashes, both for preventing the opening of the window and to secure them against rattling, as herein-after described, reference being made to the accompanying drawings, in which—

Figure 1 is an elevation of a window with my improved sash-fastener applied. Fig. 2 is a transverse section of the meeting-rails, showing the fastener in side view, with a part in section and enlarged and showing the sashes fastened together. Fig. 3 is a part of Fig. 2 in the same view detached from the rest of the parts of said figure. Fig. 4 is a section on the line *xx* of Fig. 2. Fig. 5 is a section on line *yy* of Fig. 2. Fig. 6 is a section on line *zz* of Fig. 2. Fig. 7 is a section like Fig. 2, but showing the sashes unfastened. Figs. 8, 9, and 10 represent the fastening-bolt in different side views. Fig. 11 is a side view of the fastening-bolt and a section of the knob-sleeve for working the bolt, and Fig. 12 is a side view of the bolt and said sleeve.

The meeting-rail *a* of the upper sash has a socket *b* in the face fronting the meeting-rail *c* of the lower sash, into which socket the bolt *d*, carried by the meeting-rail *c* of the lower sash, projects for connecting the two rails to prevent opening the window, and a catch-lip *e* is fixed in the mouth of the socket, behind which a hook-bit *f* on the extremity of the bolt is made to engage after the bolt has been thrust in the socket to bind the two sashes together to prevent rattling. The catch-lip *e* projects inward from one side of the socket a suitable extent for being engaged by the hook-bit *f*, and the bolt is recessed on one side, as shown at *g*, to pass over the catch-lip. The end of the bolt is beveled at *h* to facilitate entering the socket.

The meeting-rail *c* is bored to receive the bolt *d*, said bolt being partly incased in the

bore of the rail and partly in the sleeve, and said rail is counterbored for reception of a sleeve *i* for working it, and also counterbored for reception of a collar *j* of the knob *k*, to which the sleeve *i* is attached for being operated by the knob, said collar being retained by the escutcheon-plate *l*, screwed onto the inside face of meeting-rail *c*.

The sleeve *i* has spiral grooves *m*, and the bolt has studs *n* engaging said grooves to slide the bolt forward and backward for locking and unlocking the sashes.

The bolt has a longitudinal groove *o*, with which a lateral or circumferential branch groove *p* connects at the forward extremity, in which a stud *q*, set in the wall of the bore in the sash for the bolt, engages, the part *o* of said groove being to prevent the bolt from being turned by the sleeve while shifting the bolt forward and backward, and the branch *p* being to permit the bolt to be turned after being thrust forward to lock the meeting-rails together by the catch-lip *e* and the hook-bit *f*, said branch being in the relation to stud *q* whereby it registers with said stud when the bolt is in the forward position, and permits the turning of the bolt by the sleeve and the studs *n*, the latter being then at one end of the slots *m*, respectively, as seen in Fig. 2, and subject to be turned by the sleeve, the movement of which is to be continued in the same direction as for thrusting the bolt forward until stopped by the lodgment of the bottom of the branch groove *p* against the stud *q*. Reverse movement of the knob will first cause rotation of the bolt for releasing the catch-lip and hook-bit, and will return groove *o* to line with the stud *q*, which will stop further movement in the reverse direction, and then the spiral grooves *m*, acting on the studs *n*, will withdraw the bolt and unfasten the sashes, as seen in Fig. 7.

While I prefer the arrangement of the socket and the catch-lip in the face of the meeting-rail of the upper sash and the bolt and its operating sleeve in a bore of the meeting-rail of the lower sash, as represented in the drawings, I do not mean to limit myself to such arrangement, for they may be located in attachments adapted to be placed on the upper sides of the meeting-rails, respect-

ively, which is within the scope of my invention.

I claim—

1. The combination with the upper sash
5 having the catch-lip on its meeting rail, of the
slide bolt and rotating knob sleeve on the
meeting rail of the lower sash, said sleeve
having the spiral slots, and the slide bolt ar-
10 ranged partly in the bore of the sleeve, and
partly in another case, and having the studs
engaging said slots of the sleeve for thrusting
the bolt by the rotation of the sleeve, and the
stud in the bolt case and groove in the bolt
15 sleeve for effecting lengthwise movement of
the bolt by the sleeve substantially as de-
scribed.

2. The combination with the upper sash
having the catch-lip on its meeting rail, of the
20 slide bolt and the spirally slotted rotating

knob sleeve on the meeting rail of the lower
sash, said slide bolt arranged partly in the
bore of the sleeve and partly in another case
and having the hook-bit for engaging the
catch-lip, the studs for engaging the slots of 25
the sleeve, and the branched groove for be-
ing controlled by the stud in the bolt case,
and said bolt controlling stud of the case, all
adapted to slide the bolt lengthwise and to
turn it rotatively by the sleeve for locking 30
and unlocking the sash substantially as de-
scribed.

Signed at New York city, in the county and
State of New York, this 8th day of July, A. D.
1895.

THEOPHILE EUPIRAT.

Witnesses:

W. J. MORGAN,
A. P. THAYER.