

No. 747,854.

PATENTED DEC. 22, 1903.

V. E. CLARK.
FURNITURE FASTENING.
APPLICATION FILED JAN. 19, 1903.

NO MODEL.

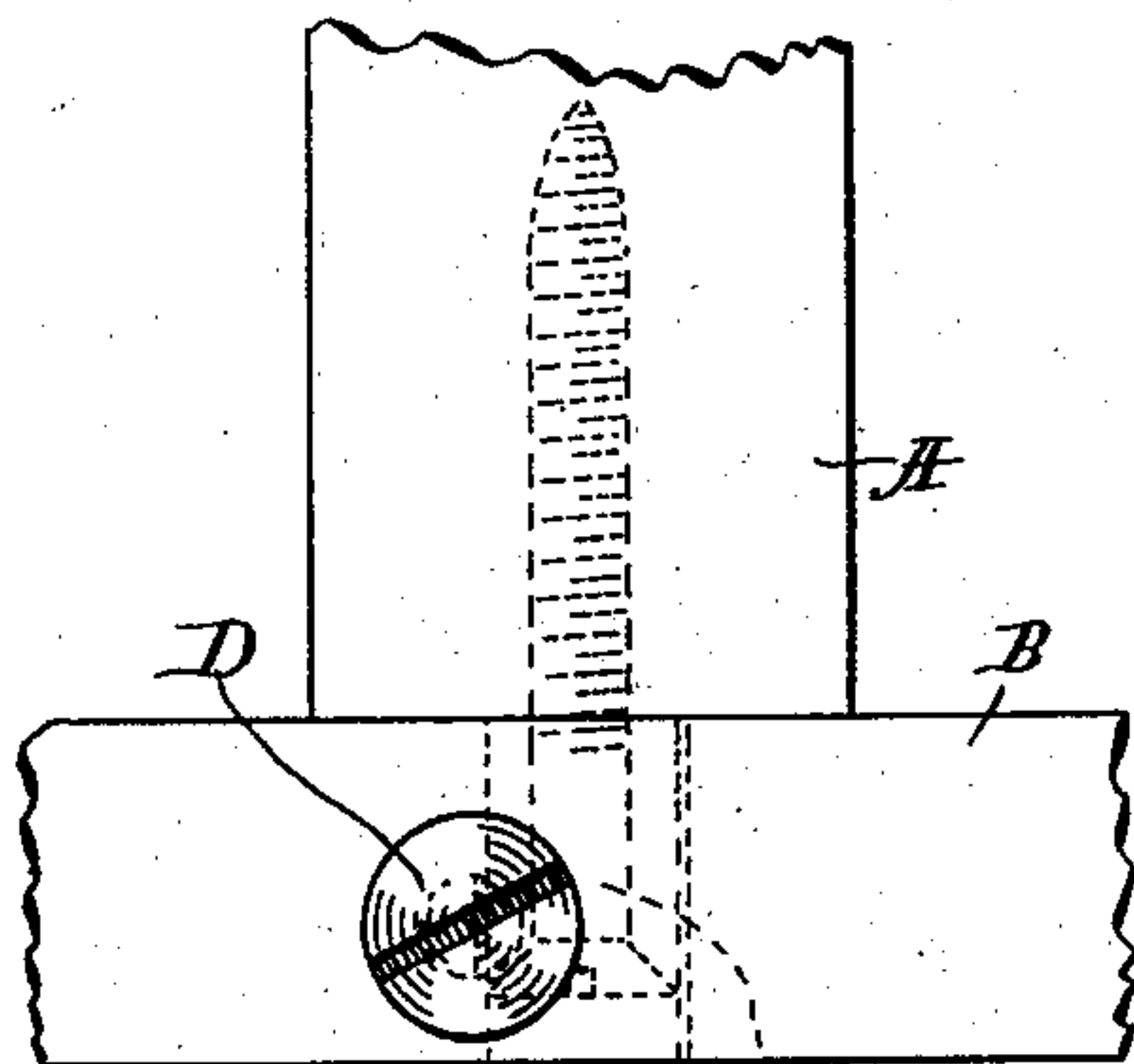


Fig. 1.

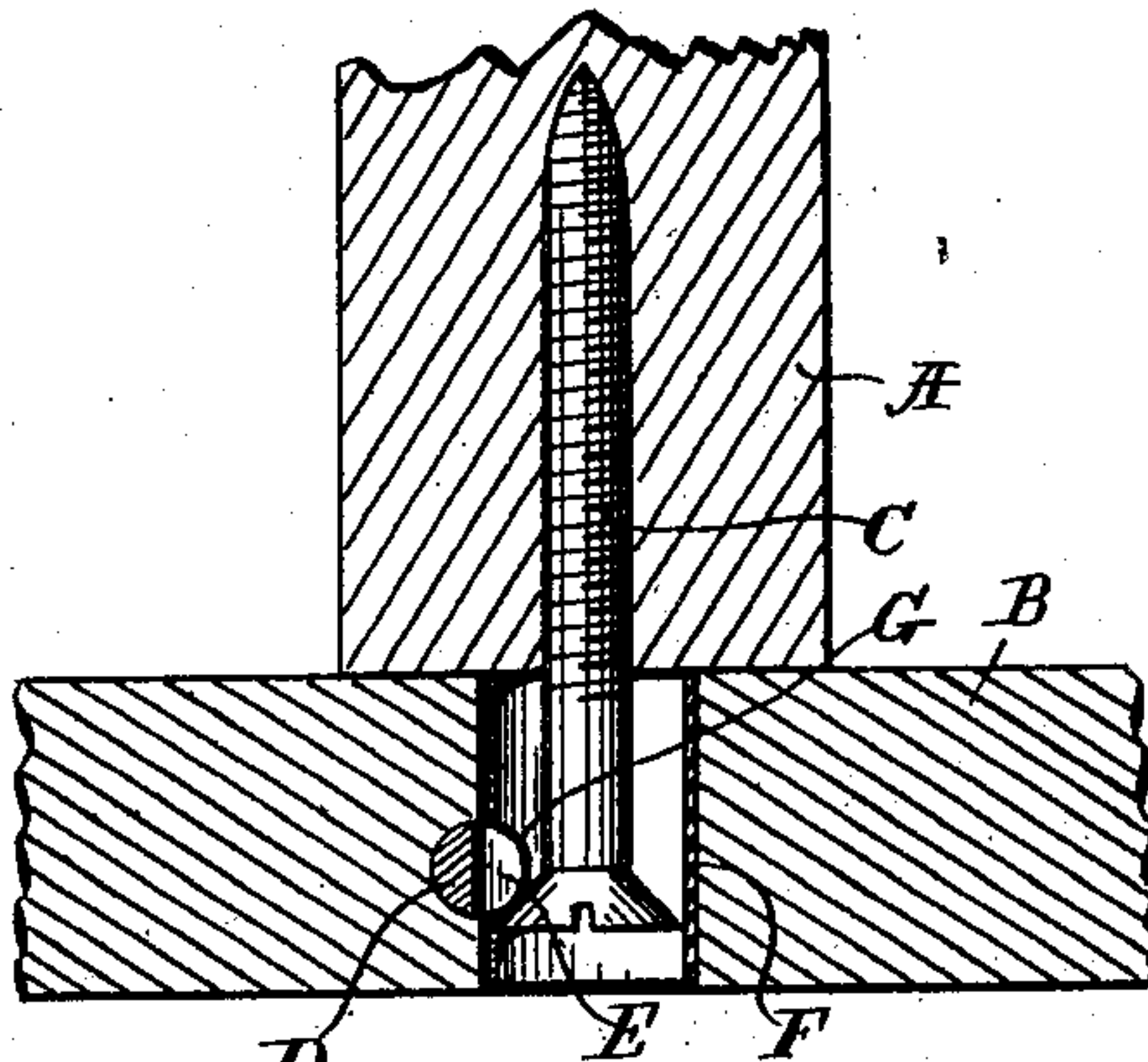


Fig. 2.

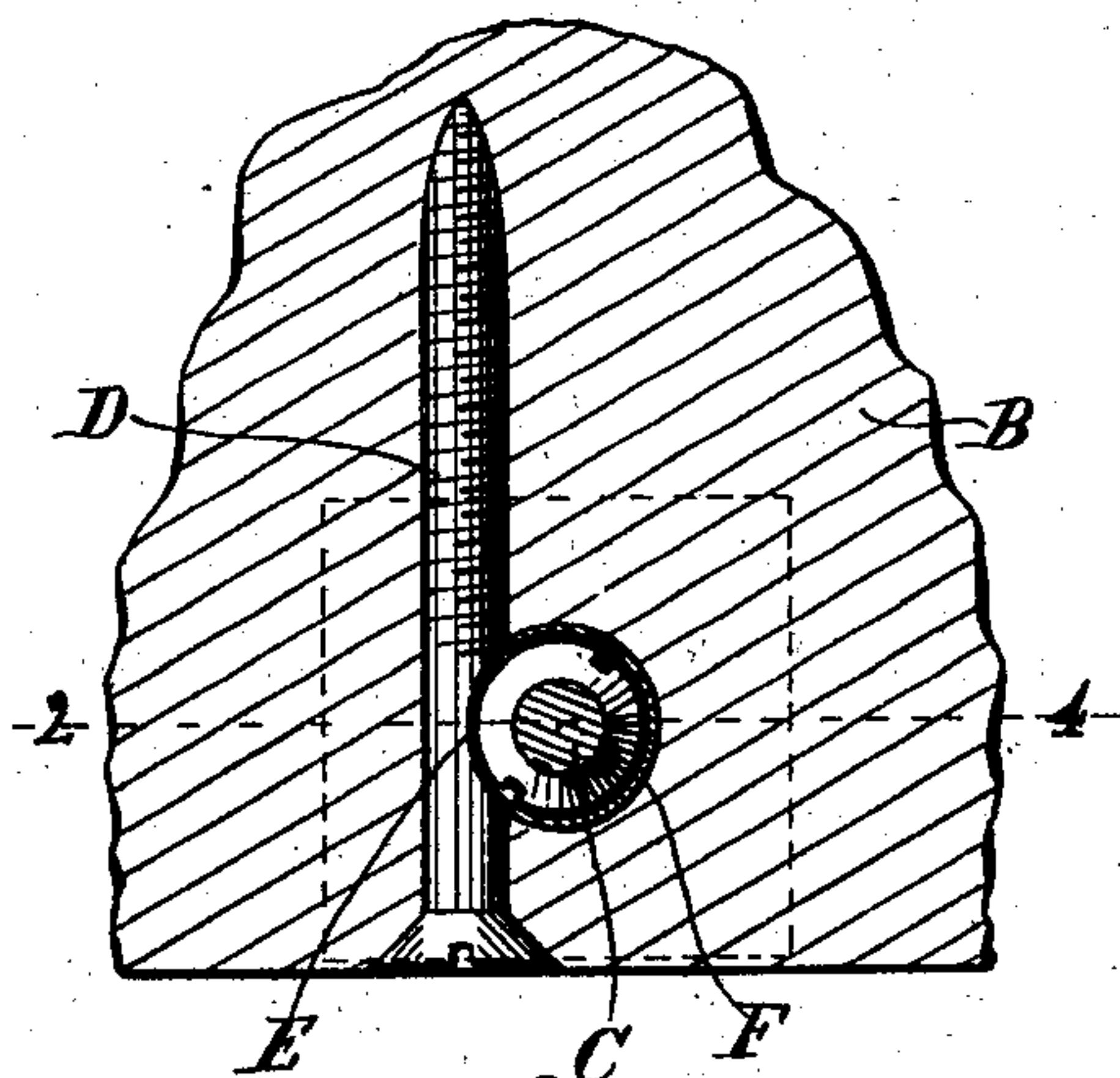


Fig. 3.

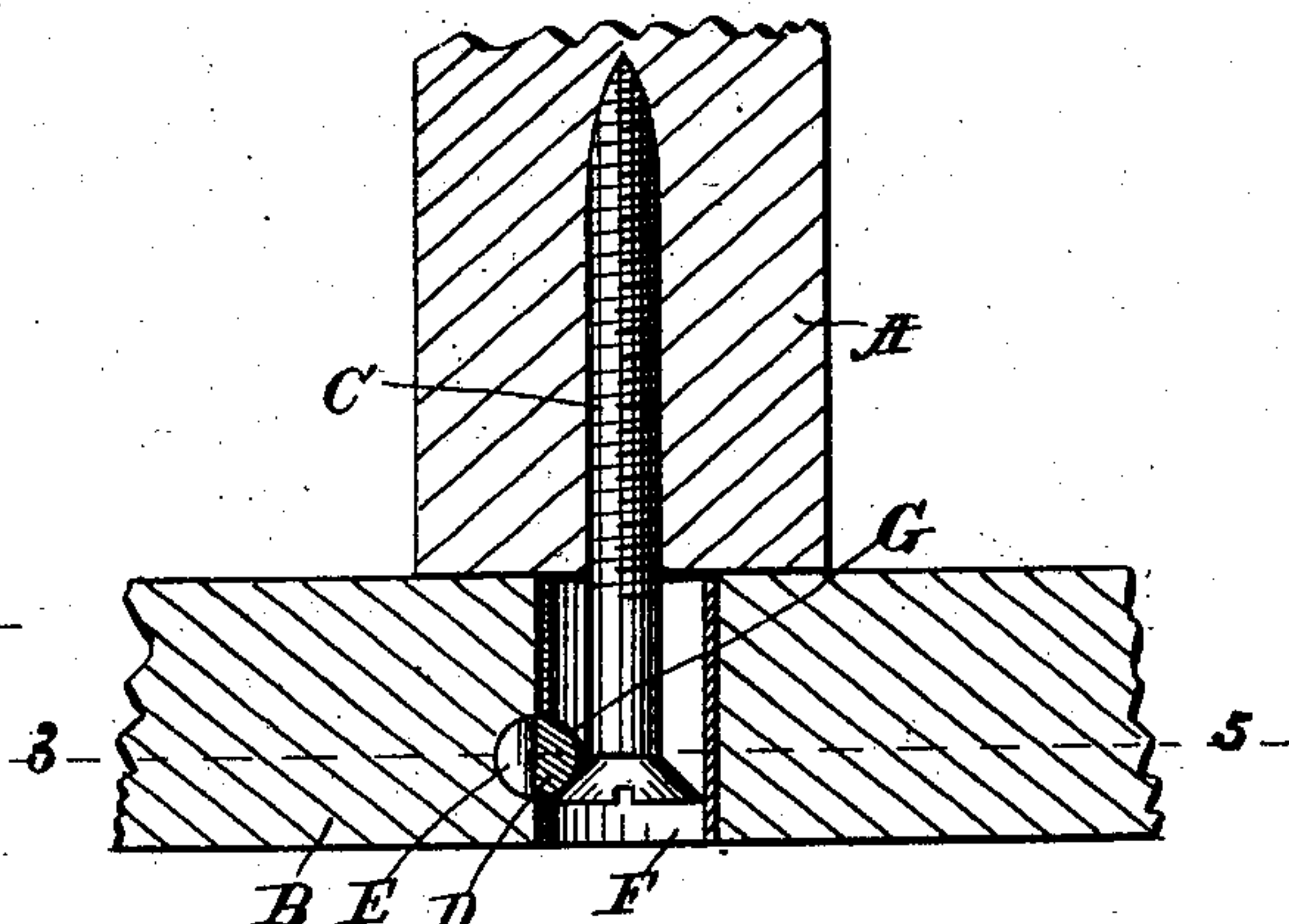


Fig. 4.

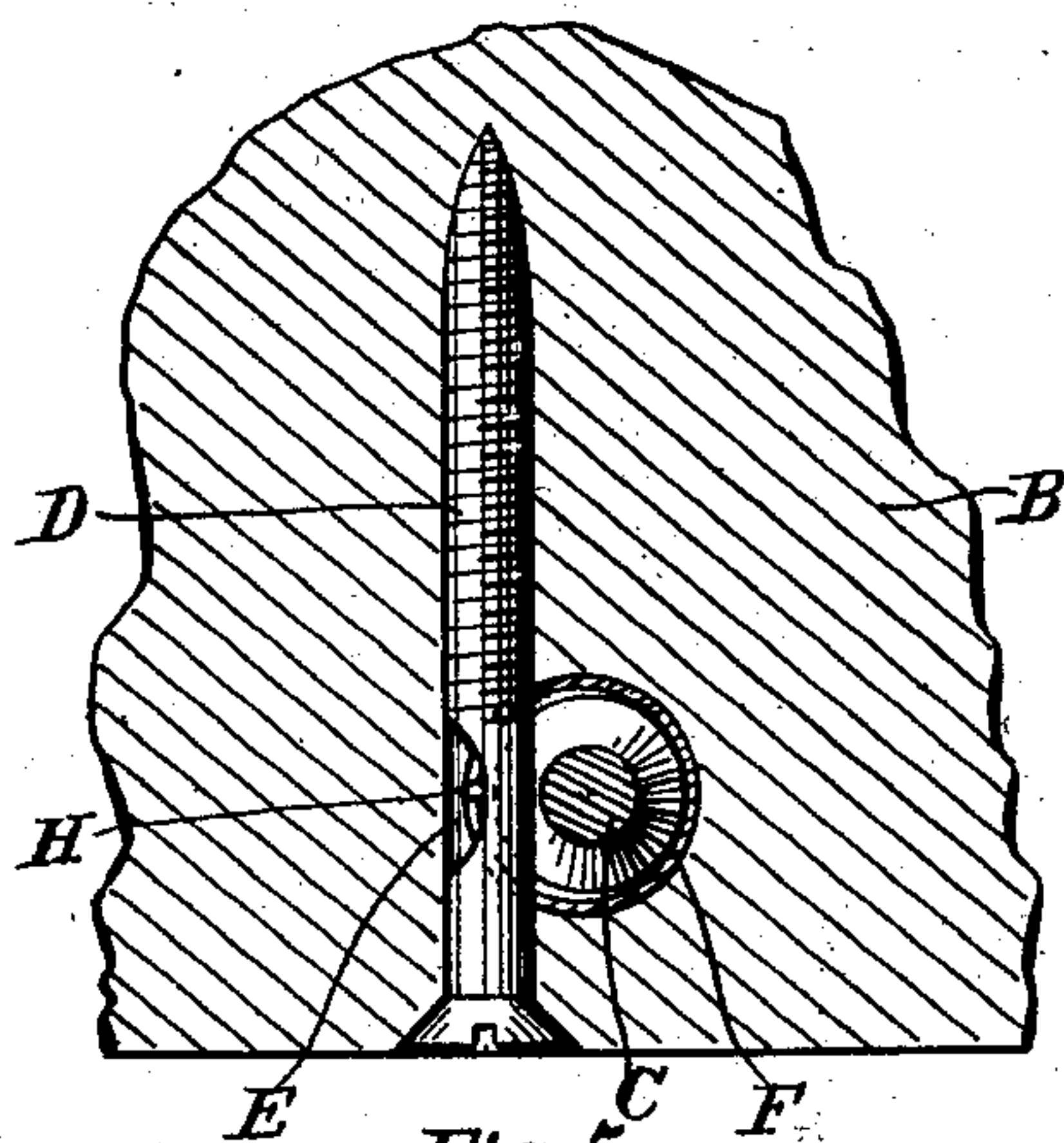


Fig. 5.

Witnesses

Georgiana Chace
Palmer A. Jones.

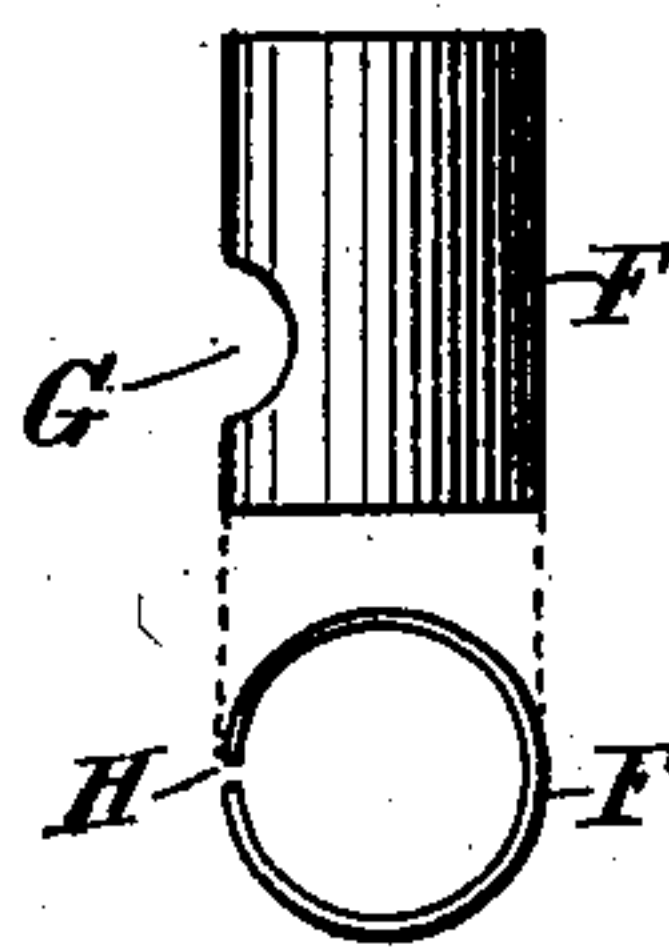


Fig. 6.

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VICTOR E. CLARK, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR OF ONE-THIRD
TO CLAUD H. RICE, OF GRAND RAPIDS, MICHIGAN.

FURNITURE-FASTENING.

SPECIFICATION forming part of Letters Patent No. 747,854, dated December 22, 1903.

Application filed January 19, 1903. Serial No. 139,493. (No model.)

To all whom it may concern:

Be it known that I, VICTOR E. CLARK, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Furniture-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 appertains to make and use the same.

My invention relates to improvements in furniture-fastenings, and more particularly to such fastenings adapted to detachably connect various parts of an article of furniture—such, for instance, as the toilet and top of a bureau or the top and sides of a desk or bureau or the legs of a table and the top and various other similar structures—and its object is to provide a cheap, simple, and effective device for the purpose, to provide a device that can be readily adjusted and tightened, to provide a device that will not become accidentally detached, and to provide the same with certain new and useful features, hereinafter more fully described, and particularly pointed out in the claims.

My device consists, essentially, of a longitudinally-adjustable bolt or stud inserted in one part and having a suitable head and a rotative locking-pin inserted in the other part and provided with a recess to permit the head to pass and adapted to engage the head of the adjustable bolt when rotated.

My invention further consists of a suitable bushing inserted in the opening in the second-named part to receive the adjustable stud and having a recess engaged by the locking-pin, whereby the bushing is held in place in the opening, as will more fully appear by reference to the accompanying drawings, in which—

Figure 1 is an elevation of a device embodying my invention; Fig. 2, a vertical section of the same on the line 2 4 of Fig. 3; Fig. 3, a horizontal section on the line 3 5 of Fig. 4; Fig. 4, the same as Fig. 2, with the locking-pin turned; Fig. 5, the same as Fig. 3, with the locking-pin turned; and Fig. 6 a detail of the bushing.

Like letters refer to like parts in all of the figures.

A and B represent two respective portions of any article of furniture that are to be detachably connected by my device, such as the post of a toilet, the leg of a table, or the side of a desk, or any other portion of an article of furniture, (shown herein in vertical position at A,) and B representing either the top of a bureau or table or desk or any other like portion of an article of furniture suitable to be attached to A, and is herein represented in horizontal position.

C is a longitudinally-adjustable stud inserted in A and projecting a suitable distance therefrom, preferably screw-threaded in that portion inserted in A, whereby it is secured in place and adjusted by being rotated and having a truncated conical head with a transverse slot, whereby in all positions it presents a suitable shoulder to the locking-pin and may be rotated when locked. This stud may be conveniently made of an ordinary flat-headed wood-screw.

In the part B is formed an opening directly beneath part A when in position, said opening being slightly larger than the diameter of the head of the stud C and adapted to receive the same. To take the lateral thrust of this head, I provide said opening with a metallic bushing F, consisting of a suitable piece of flexible sheet metal rolled in tubular form and having a longitudinal opening at one side, whereby said bushing may be compressed to adapt it to fit any slight variation of size in the opening in B and be frictionally retained therein. Said bushing is also provided with a transverse recess G, which recess is engaged by the locking-pin D to further secure the bushing in place in said opening.

In the part B, I insert a locking-pin D, arranged at substantially right angles to the stud C and provided with a recess E in one side, which when said recess is turned toward the stud C will permit the head of the same to pass said pin, and when the pin is partially rotated about its axis the portion of said pin opposite the recess will engage the head of the stud C and acting as a cam and stop will draw the parts close together and hold the

stud securely within the opening in B. This locking-pin can also be conveniently made of an ordinary wood-screw with the recess formed in the side thereof, whereby the threaded portion of the same retains it securely in place and prevents its longitudinal displacement, and the slot or nick in its end permits of the same being turned by an ordinary screw-driver.

It will thus be readily observed that by turning the locking-pin D in the position shown in Figs. 2 and 3 the parts can be readily detached, and by turning the same in the position shown in Figs. 4 and 5 the parts are firmly secured to each other, and that by turning the stud C by means of a screw-driver or other suitable tool it can be adjusted accurately to properly force the parts firmly together and hold the same securely in place. It will also be seen that the bushing is adapted to fit in openings slightly variable in size and is securely held in place and that it serves to take the side thrust upon the stud C and prevent the same from being forced into the wood at the side opposite the locking-pin. Said bushing, however, can be omitted and the device will operate, especially if the part B is of hard wood. It is also obvious that the device is simple, easily and cheaply constructed, may be made of two ordinary wood-screws, one of which is recessed, and not likely to get out of order.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of a stud screw-threaded at one end and having a head at the other end projecting laterally on all sides of the stud to engage the locking-pin, and a locking-pin having a recess in its side to permit said head to pass and a screw-threaded end to prevent accidental longitudinal movement of the pin.

2. The combination of a stud having a screw-threaded end and truncated conical head, and also having a transverse slot in the head, and a locking-pin screw-threaded at one end and having a transverse slot at the other end, and also having a recess in one side to permit the passage of the head of the stud.

3. The combination of an article of furniture having two detachable parts, and an opening in one part, a bushing of flexible material having a longitudinal opening, a stud

in one of said parts having a head engaging the bushing at one side, and a rotary locking-pin engaging the head at the other side and having a recess to permit the head to pass, and means for rotating the locking-pin.

4. The combination of an article of furniture having two detachable parts, and an opening in one of said parts, a bushing in said opening and having a lateral recess, a rotary locking-pin inserted transversely of said opening and engaging said recess, and also having a lateral recess in its side, and a stud inserted in the other part and projecting within said bushing and engaged by the locking-pin.

5. The combination of an article of furniture having two detachable parts, and an opening in one of said parts to receive the stud, a screw-threaded stud inserted in the other part and projecting therefrom, and also having a truncated conical head having a transverse slot, a bushing in said opening having a longitudinal opening and a transverse recess in its side, and a rotative locking-pin having a recess in its side to permit the passage of the head on the stud, and also having screw-threads at one end and a transverse slot at the other end.

6. A furniture-fastening consisting of two flat-head wood-screws arranged transversely of each other and in different planes, one of said screws having a recess opposite the other screw to permit the head thereof to pass and engaging said head opposite the said recess to secure the parts of furniture to each other.

7. As an article of manufacture, an ordinary wood-screw, provided with a lateral recess in its side and adapted to coact with another wood-screw to form a furniture-fastening, substantially as described.

8. In a furniture-fastening, two wood-screws, arranged transversely of each other and in different planes, one of said screws having a recess opposite the other screw to permit the head of the other screw to pass and engaging the said head opposite said recess, and a bushing adapted to engage the said head opposite the recessed screw.

In testimony whereof I affix my signature in presence of two witnesses.

VICTOR E. CLARK.

Witnesses:

CLAUD H. RICE,
LUTHER V. MOULTON.