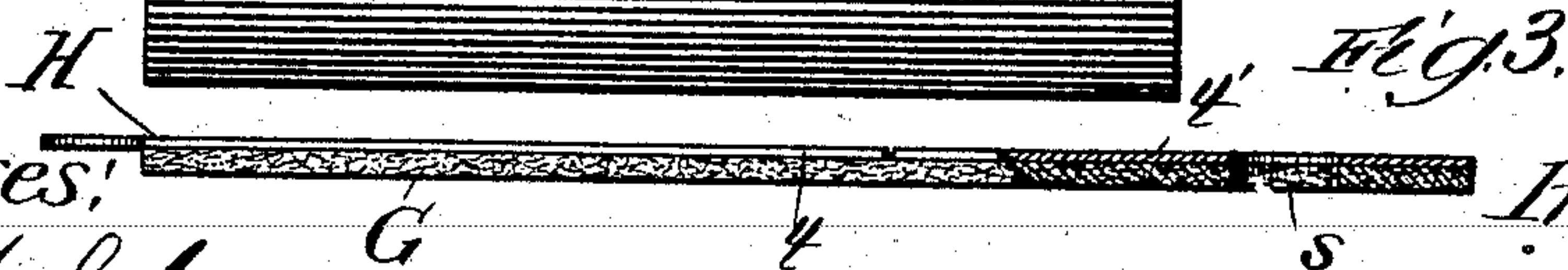
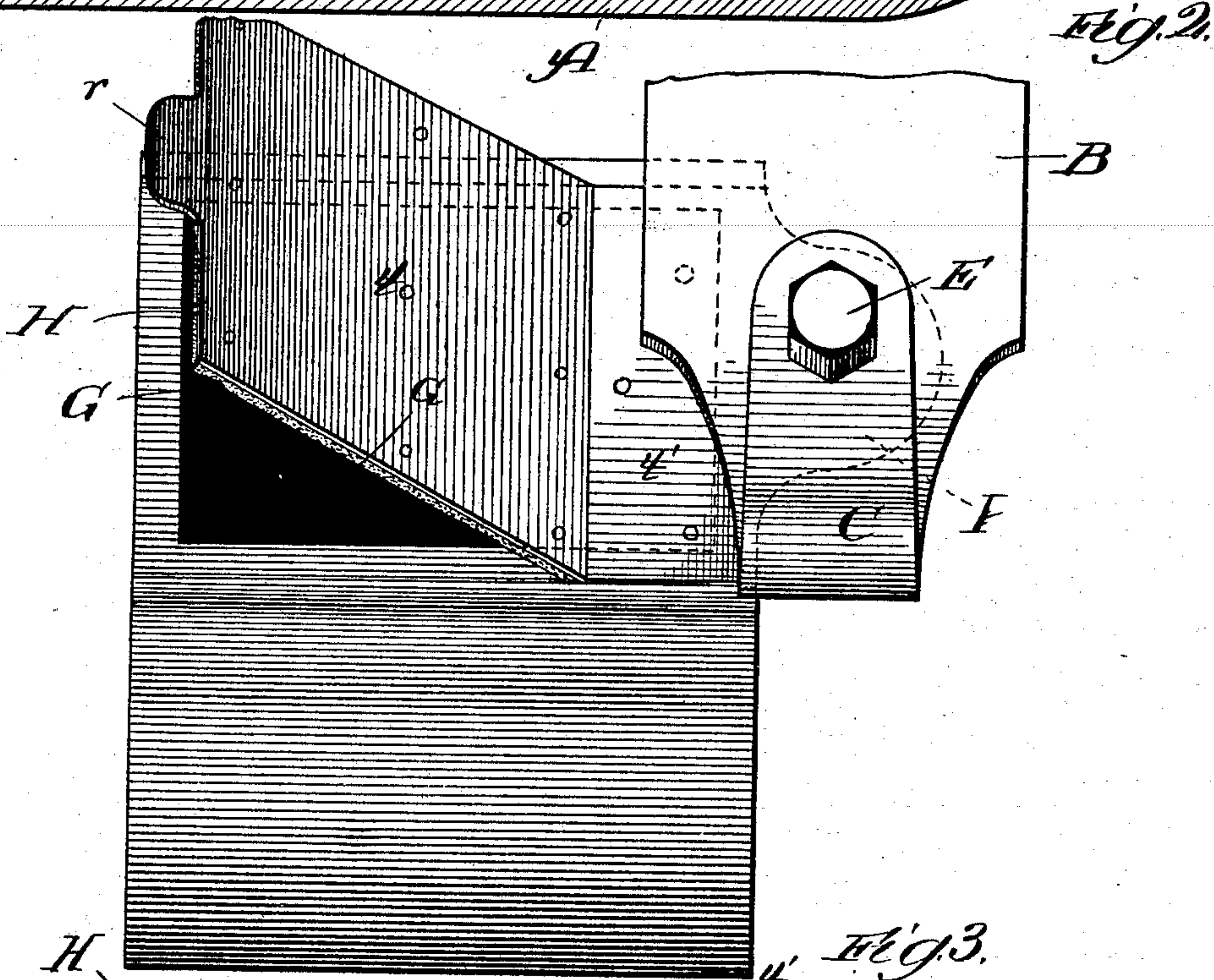
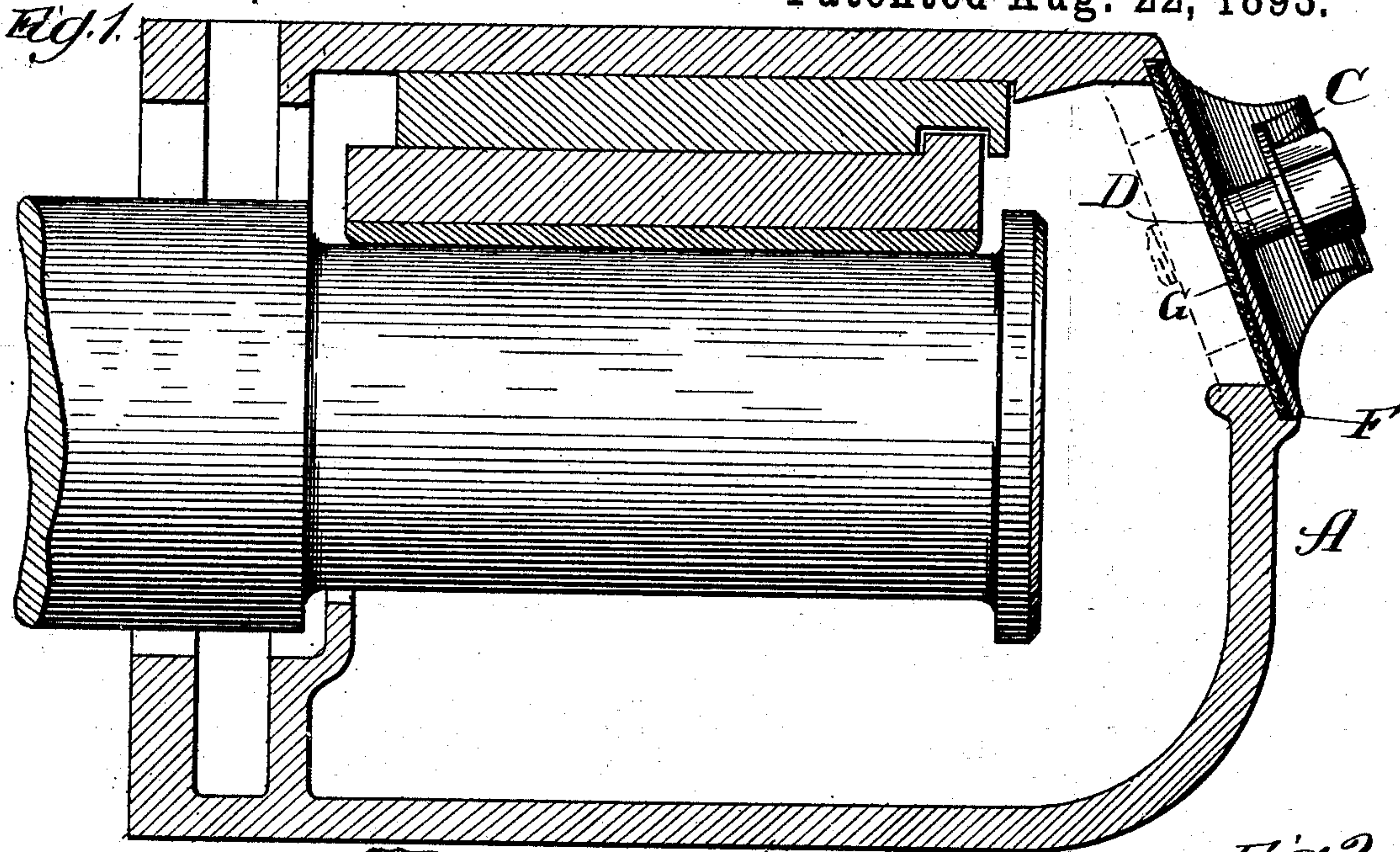


(No Model.)

J. J. BUSENBENZ.
DUST GUARD FOR JOURNAL BOXES.

No. 503,715.

Patented Aug. 22, 1893.



Witnesses:
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UNITED STATES PATENT OFFICE.

JACOB J. BUSENBENZ, OF ROCK ISLAND, ILLINOIS.

DUST-GUARD FOR JOURNAL-BOXES.

SPECIFICATION forming part of Letters Patent No. 503,715, dated August 22, 1893.

Application filed December 8, 1892. Serial No. 454,529. (No model.)

To all whom it may concern:

Be it known that I, JACOB J. BUSENBENZ, a citizen of the United States, residing at Rock Island, in the county of Rock Island and State of Illinois, have invented a new and useful Improvement in Dust-Guards for Journal-Boxes, of which the following is a specification.

My invention relates to an improvement in dust guards for the lid opening of journal boxes, and is particularly directed to an improvement in dust guards for use with lids which are hung upon a pivot at one side of the aperture, and adapted by swinging upward to permit access to be had to the journal and brasses. It is found impossible in practice to make the joint between the lid and the wall of the aperture so perfect that dust may not enter, and it is therefore found necessary to supply an intermediate guard, usually of felt, at this point, to make the journal box as far as possible dust-proof. It is also necessary frequently to open the lid for the mere inspection of the journal and brasses without the intention of removing the brasses from the box, and in such an event it is desirable that such a structure of dust guard shall be employed as will permit the interior of the box to be inspected without requiring the withdrawal of the guard.

My invention is directed to an improvement which will meet these requirements, and consists generally in a dust guard made to fit entirely across the opening of the journal box, and given the property of a hinge in part of its length, whereby when the journal box lid is opened a part of the dust guard may be withdrawn without necessitating the withdrawal of the entire guard from the box.

My invention consists further in the preferred general and specific details of construction, all as herein more fully set forth.

In the drawings—Figure 1 is a longitudinal central section of a journal box employing my improvement. Fig. 2 is a front elevation of a journal box employing my improvement, showing the lid raised and showing the mode of utilizing the hinge in the dust guard. Fig. 3 is an edge view partly in section of the dust guard involving my preferred construction.

A represents a journal box and B the lid. This lid is shown as of the kind which employs a spring C, after the manner of a re-

turning extension of the lid, the purpose of which spring is to cause the lid when in position over the opening to be held tightly against the box. The hinge of the lid is in the form of a bolt D, entering and secured to a stud on the inside of the journal box at one end, and passing through a hole formed in the lid and in the spring C, beyond which latter it receives a nut E by which it is tightened. About the opening of the journal box a recess F is formed to receive the edges of the lid. The dust guard comprises a sheet of felt G, upon the face of which is laid a plate H preferably made in two parts, $t t'$, separated from each other to a very small extent as shown in Fig. 3. The dust guard G H is of about the dimension necessary to fit snugly upon the ledge F about the opening, and at one end is extended as shown at I, in which extension a bolt-hole s is formed to receive the bolt D, which passes through both the felt and metal of the dust guard, and serves as a hinge to permit the same to be lifted in the same manner as the lid B of the box. The plates $t t'$ are firmly riveted to the felt G.

In operation the functions of the device are as follows: The dust guard being placed in the recess F with the felt side in contact with the wall of the recess, and held in this position by its pivotal connection with the bolt D, the spring lid B then being turned into place serves to press the dust guard firmly against its seat. In this position access of dust is substantially prevented. If it be desired to inspect the interior of the box, the lid B may be turned to the position shown in Fig. 2, whereupon the section t of the dust guard may be lifted through the medium of the lip r , the felt at the joint of the section $t t'$ acting as a hinge. If it is desired to remove the brasses without removing the lid, the dust guard may be turned upward on the pivot bolt D in the same position as the lid B.

It will be apparent that although the lid B is used as a means for holding the dust guard firmly on its seat, it is not essential that reliance shall be placed wholly or at all upon this means of effecting the result. The lid need not be a spring lid, a frame of any suitable kind interposed between it and the dust guard serving to hold the latter firmly in position. This modification is so obvious as to suggest

itself immediately to a skilled mechanic. It will also be apparent that it is not essential that the dust guard shall be provided with continuous plates $t t'$ as rectangular frames 5 may serve the same function, it being merely necessary that the dust guard shall be held in close contact at its edges with the ledge about the opening. If the function provided in the sectional plate is not desired, this plate 10 may be made in a continuous sheet instead of in two sections $t t'$. Such changes as here suggested and similar obvious modifications are intended to be included in my invention.

What I claim as new, and desire to secure 15 by Letters Patent, is—

1. A dust guard for the front opening of journal boxes comprising in combination a sheet of felt or similar material G and a sectional plate H secured to said sheet of felt or 20 similar material, whereby part of the dust guard may be turned up without turning up the remainder, substantially as described.

2. The combination with a journal box lid 25 box, of a dust guard comprising a sheet of felt reinforced with metal such as the plate H,

said dust guard provided with a bolt-hole for pivoting it upon the pivot of the lid, substantially as described.

3. The combination with a spring-controlled 30 lid for a journal box and a bolt forming a pivot for said lid, of a dust guard comprising hinged sections fitting over the journal box opening beneath the lid, and held in position by the spring of the lid, substantially as de- 35 scribed.

4. The combination with a journal box having the lid B carrying the spring C and with the bolt D forming a pivot and retaining medium for said lid, of a dust guard compris- 40 ing a continuous sheet of felt or similar material, having secured thereto the plate $t t'$ to present the hinged sections as shown, said dust guard having at one end the aperture to receive the bolt D and at the other end 45 means for opening it, such as the lip r , substantially as described.

JACOB J. BUSENBENZ.

In presence of—

HARRY H. CLEAVELAND,
W. H. HAYES.