

No. 683,918.

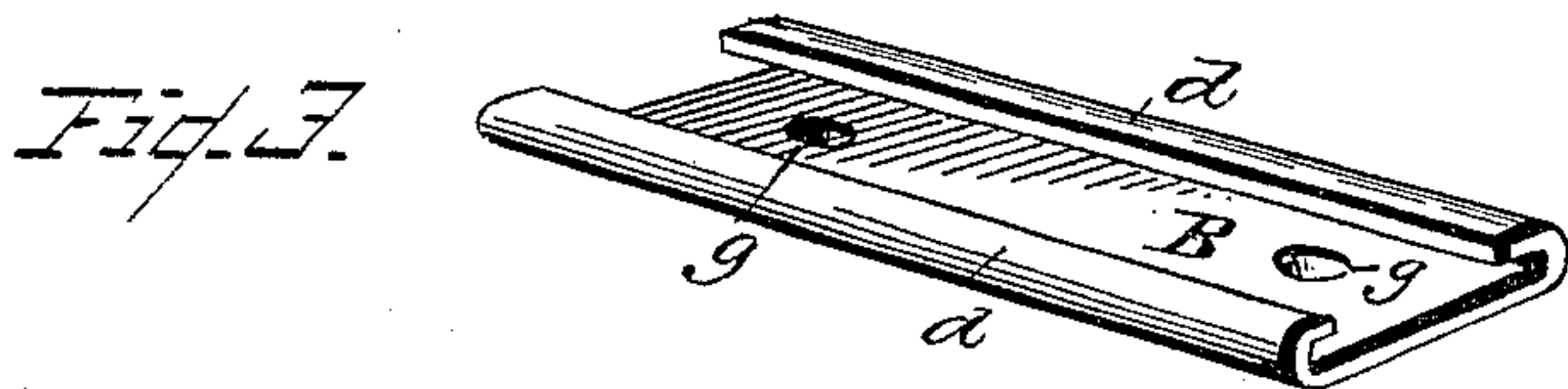
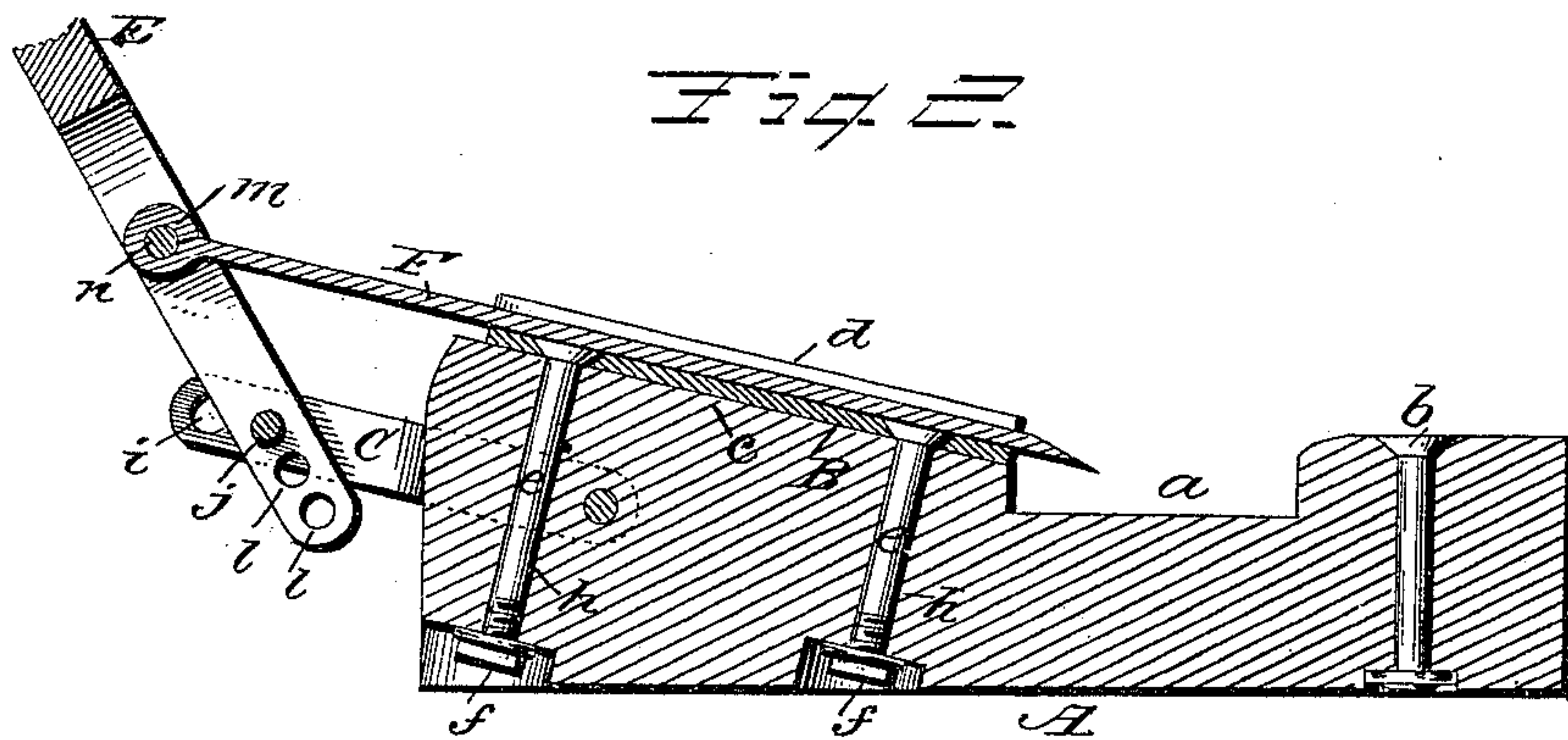
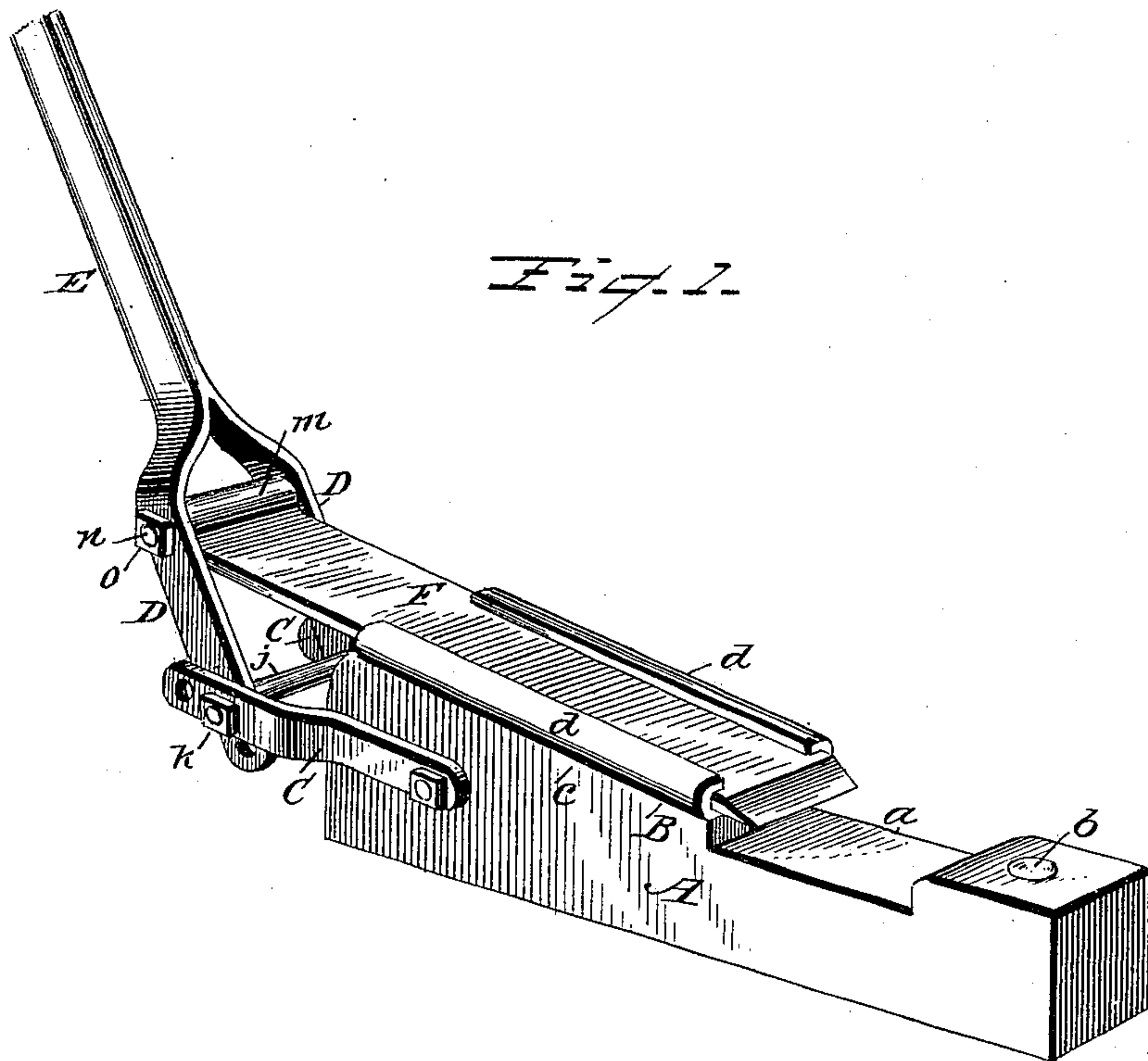
Patented Oct. 8, 1901

M. EDEL.

MACHINE FOR MAKING WOODEN WEDGES.

(Application filed June 7, 1901.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

MATTHEW EDEL, OF HAVERHILL, IOWA.

MACHINE FOR MAKING WOODEN WEDGES.

SPECIFICATION forming part of Letters Patent No. 683,918, dated October 8, 1901.

Application filed June 7, 1901. Serial No. 63,577. (No model.)

To all whom it may concern:

Be it known that I, MATTHEW EDEL, a citizen of the United States, residing at Haverhill, in the county of Marshall and State of Iowa, have invented certain new and useful Improvements in Machines for Making Wooden Wedges; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has relation to that class of machines for making wooden wedges in which is employed a slidable knife operated by a lever; and the object thereof is to provide such a machine that will be easy of operation and simple in construction in possessing comparatively few parts, thereby securing compactness, as well as the necessary strength and durability.

The invention therefore consists in a machine for making wooden wedges, constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is a perspective view of a machine constructed in accordance with my invention; Fig. 2, a longitudinal section thereof; Fig. 3, a detail perspective view of the bearing-plate for the slidable knife.

In the accompanying drawings, A represents the bed of the machine, which may be of any suitable form and construction and has a recessed seat *a* for the block of wood from which the wedge is to be cut.

The bed A, which may be of any preferred material, has a brace-rod *b* extending through its end in the form of a screw-bolt with nut, so that when the bed is constructed of wood the rod will hold the fibers of the wood together against splitting.

The bed A has an inclined support, as shown at *c*, upon which rests the bearing-plate B, which plate has guide-flanges *d* extending inward and the entire length of said plate, as shown more clearly in Fig. 3 of the drawings.

The bearing-plate B is detachably connected to the inclined support *c* by means of screw-bolts *e* and nuts *f* engaging the screw-threaded ends thereof, said bolts extending through holes *g* in the plate and through holes *h* in the bed A of the machine. Any suitable

means may be employed for securing the bearing-plate in place as found most desirable, and the bed may be secured to a bench, table, or other object by clamps or screws or by any well-known means that will hold the bed stationary while the wedges are being made.

Brackets C are suitably secured to the sides of the bed A near its rear end, and the outer ends of the brackets are bent outward and are provided with a plurality of holes *i* to receive the ends of a pivot-rod *j*, secured thereto by nut *k*, engaging the screw-threaded end of the rod.

Arms D upon the lower end of a hand-lever E form the bifurcated end of said lever, said arms also having a plurality of holes *l*, with which engages the pivot-rod *j*, thereby forming a pivotal connection between the brackets C and the hand-operating lever E, the plurality of holes in the brackets and the bifurcated end of the lever allowing the lever to be adjusted to regulate the throw of the knife F.

The metal forming the heel of the knife F is bent to form an eye *m* of a length equal to the width of the blade of the knife and is loosely or pivotally connected to the bifurcated end of the lever E between the arms D by means of a pin *n*, extending through the eye and through the arms and secured by nut *o*, as shown in Fig. 1 of the drawings. The pivotal connection of the hand-lever with the brackets and the hand-lever with the slidable knife may be variously modified or changed, although the means employed are considered to be both simple and effective, it being one of the objects of the invention to render the machine as simple as possible without affecting its practicability and ease of operation. It is believed that the simple bending of the metal at the heel of the knife to form the eye of a length equal to the width of the blade thereof and pivotally connecting the same to and between the arms of the bifurcated end of the lever forms both a strong and durable connection between said lever and the knife and prevents the blade from twisting or getting out of line. The bearing-plate is also of material importance, especially when provided with the guide-flanges with which the knife engages, said plate forming both a support and wearing-plate for the knife and securely

holding it in a true line and against lateral displacement and also against the possibility of "buckling" by any excessive heat from friction.

5 Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A machine for making wooden wedges, consisting of a suitable bed having a recessed
10 seat for the block of wood from which the wedges are to be cut, a bearing-plate having guide-flanges secured to the bed, a slidable knife engaging with the flanges, brackets secured to the sides of the bed, a bifurcated
15 hand-lever pivotally connected to the brackets and pivotally connected to the knife, substantially as and for the purpose set forth.

2. A machine for making wooden wedges,

consisting of a suitable bed having a recessed seat for the block of wood from which the
20 wedges are to be cut, a flanged bearing-plate secured to the bed, a slidable knife supported upon the plate, said knife having its rear end or heel terminating in an eye extending the
25 entire width of the knife and integral therewith, and an operating-lever loosely connecting with the eye of the knife, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence
30 of two witnesses.

MATTHEW EDEL.

Witnesses:

M. L. KRIER,
C. RICKERT.