

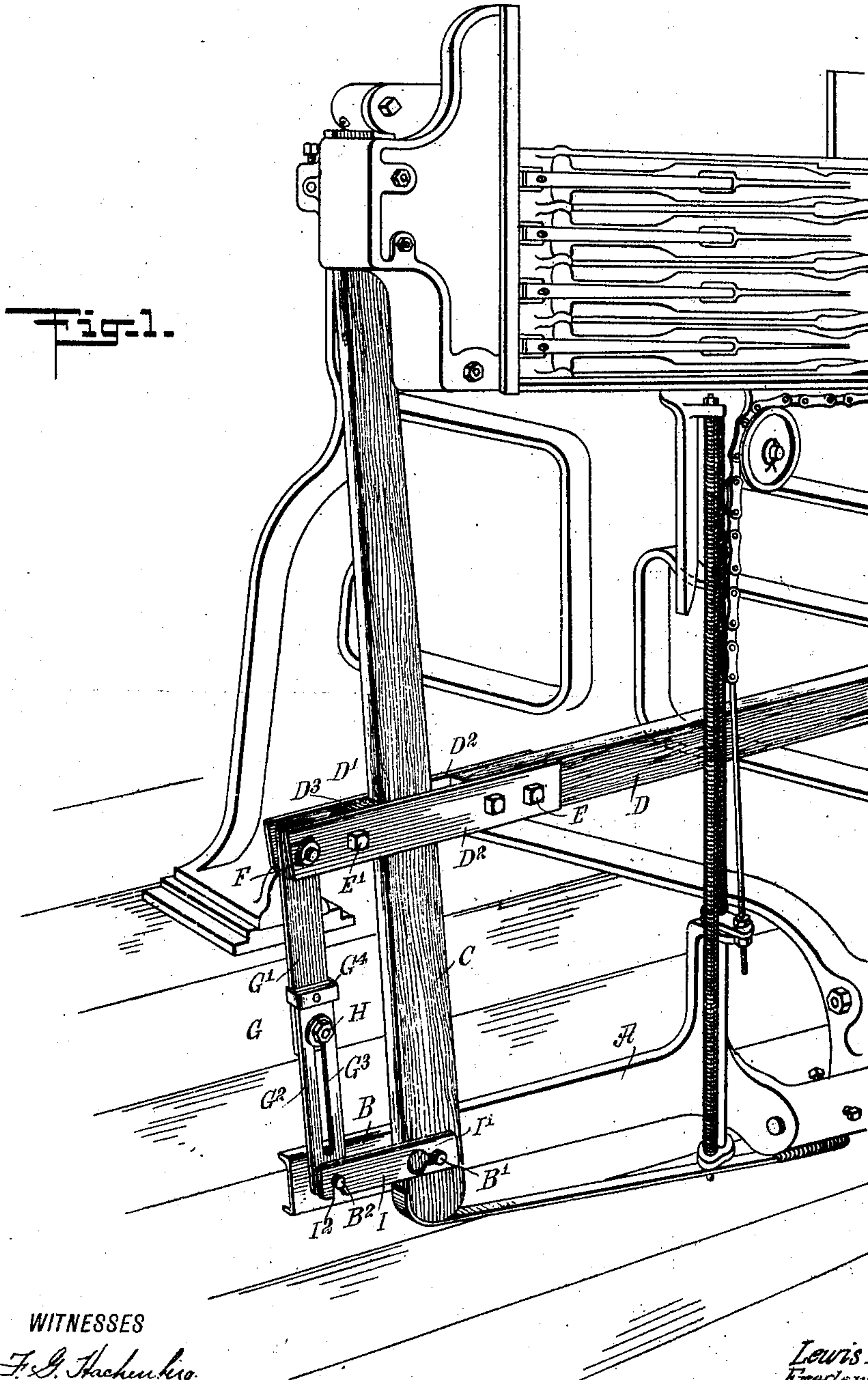
L. E. MELLOR & F. W. COLE.
PICKING MECHANISM.

APPLICATION FILED JAN. 29, 1910.

976,673.

Patented Nov. 22, 1910.

2 SHEETS—SHEET 1.



WITNESSES

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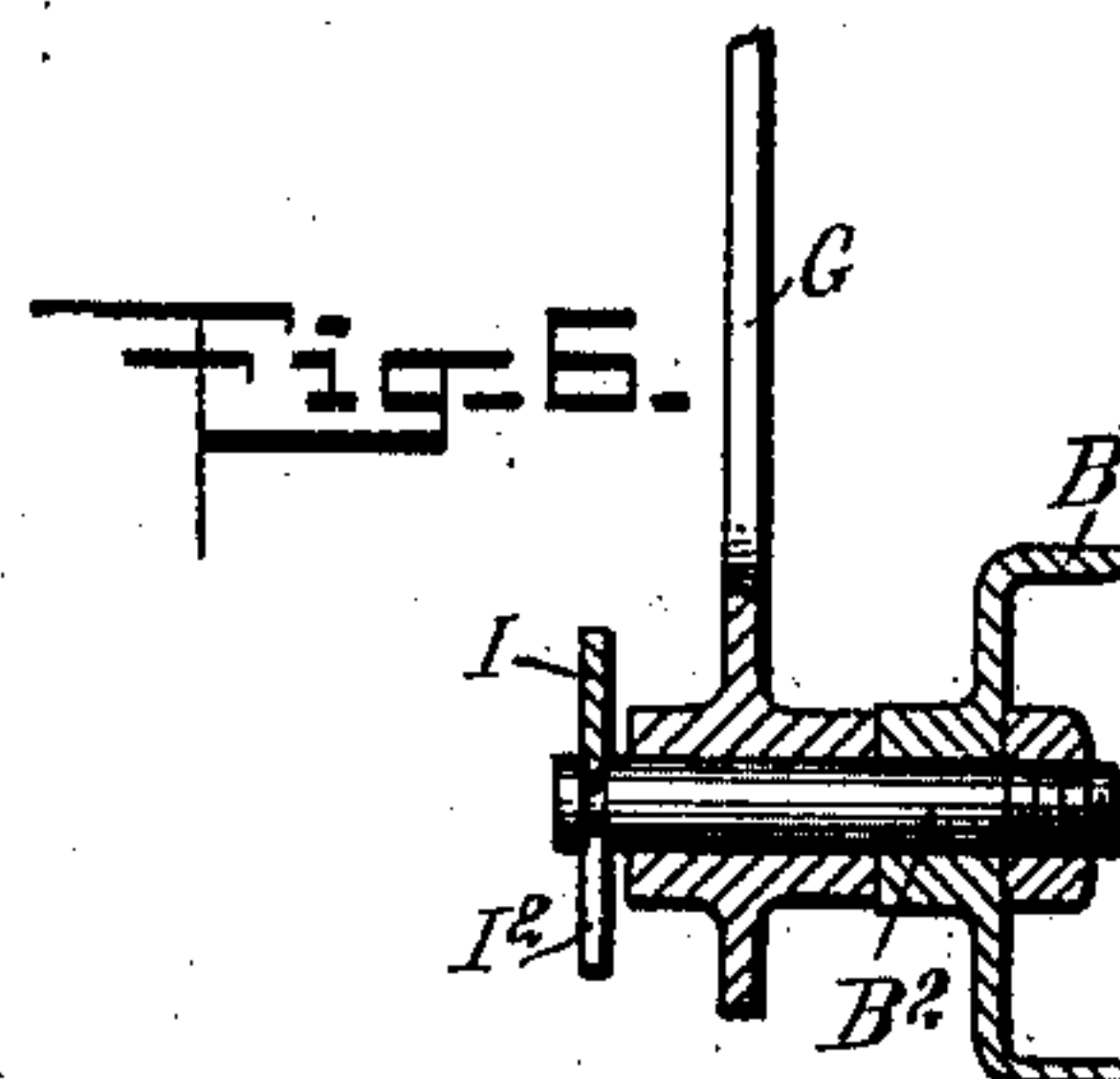
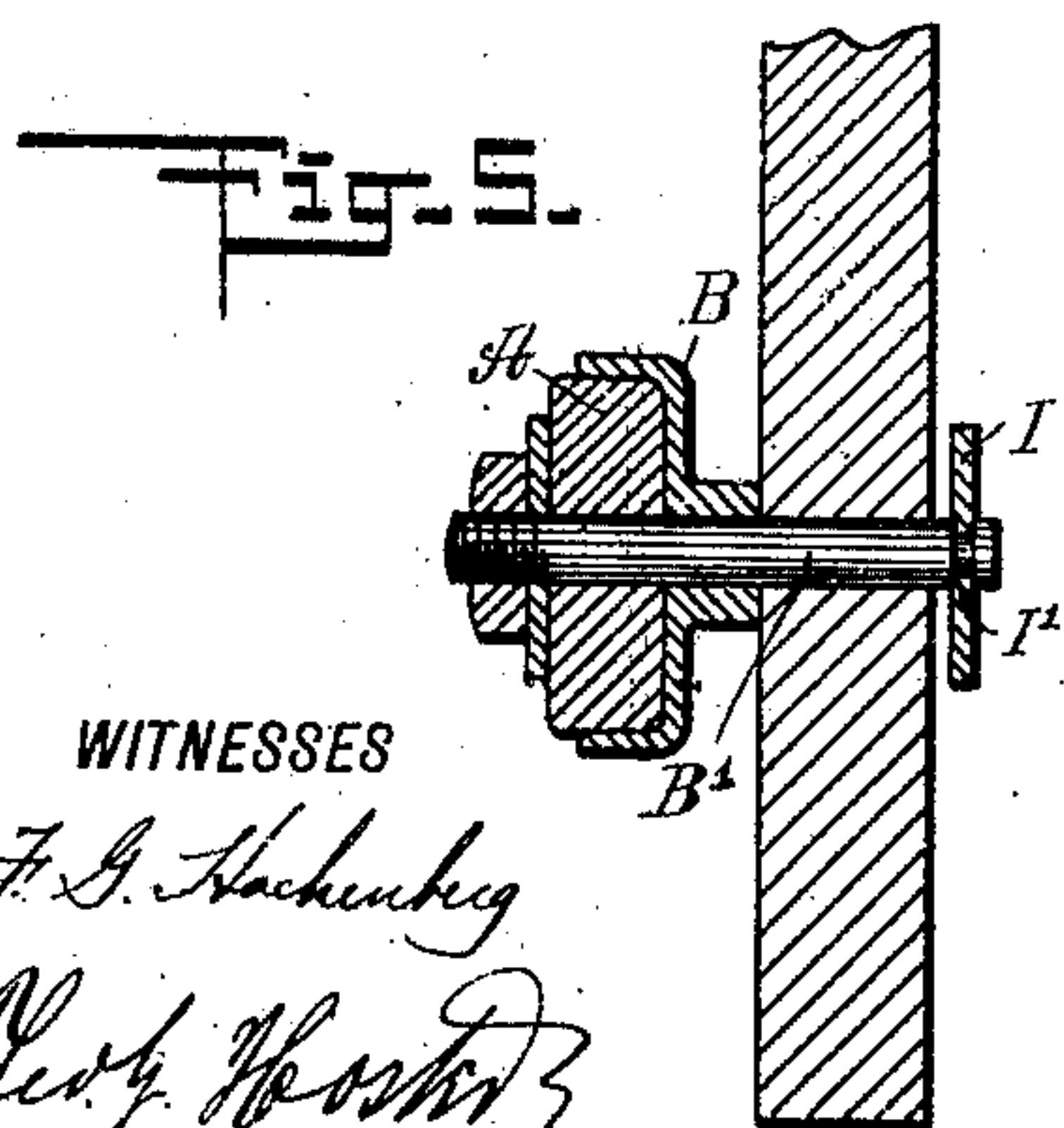
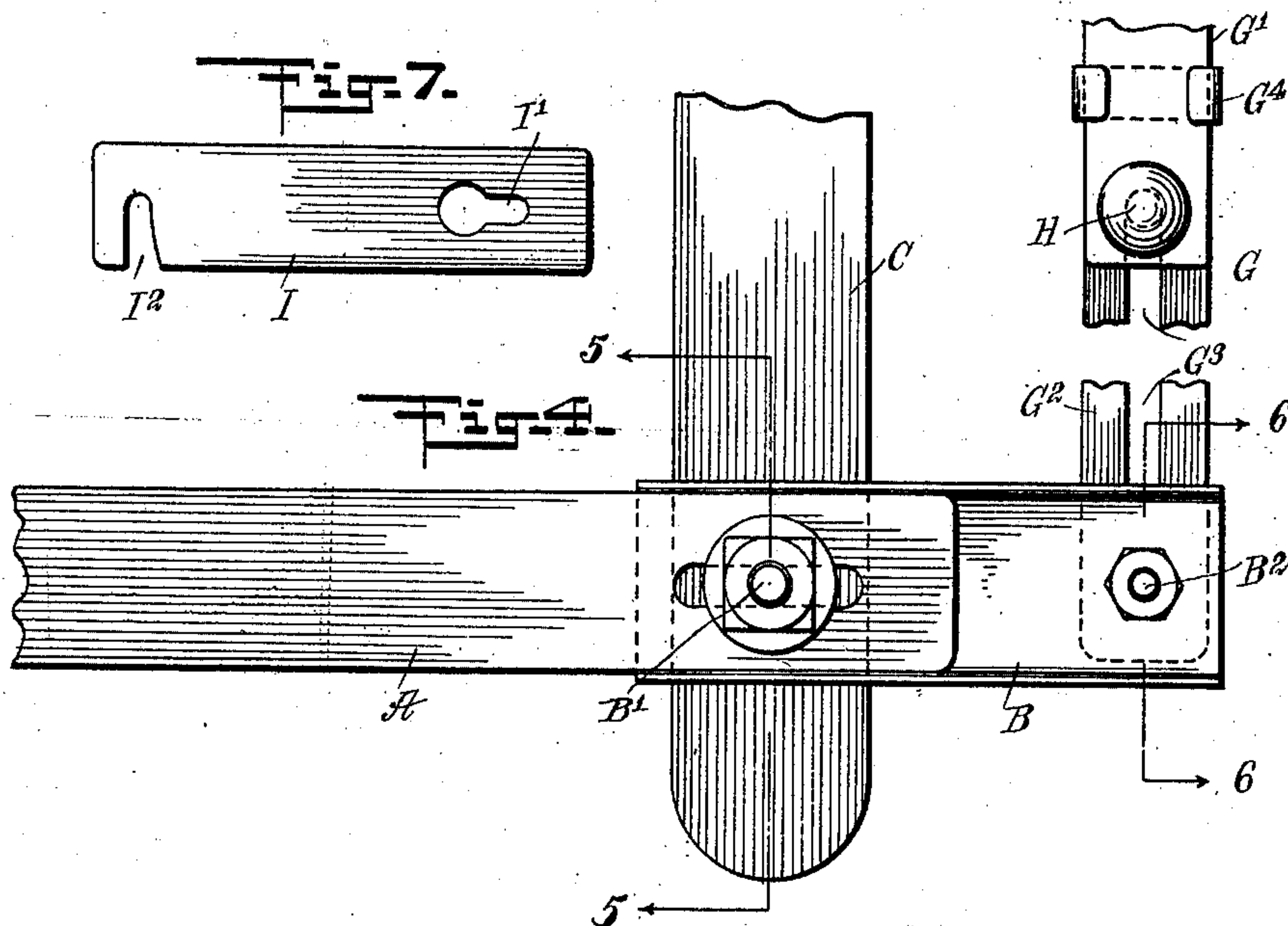
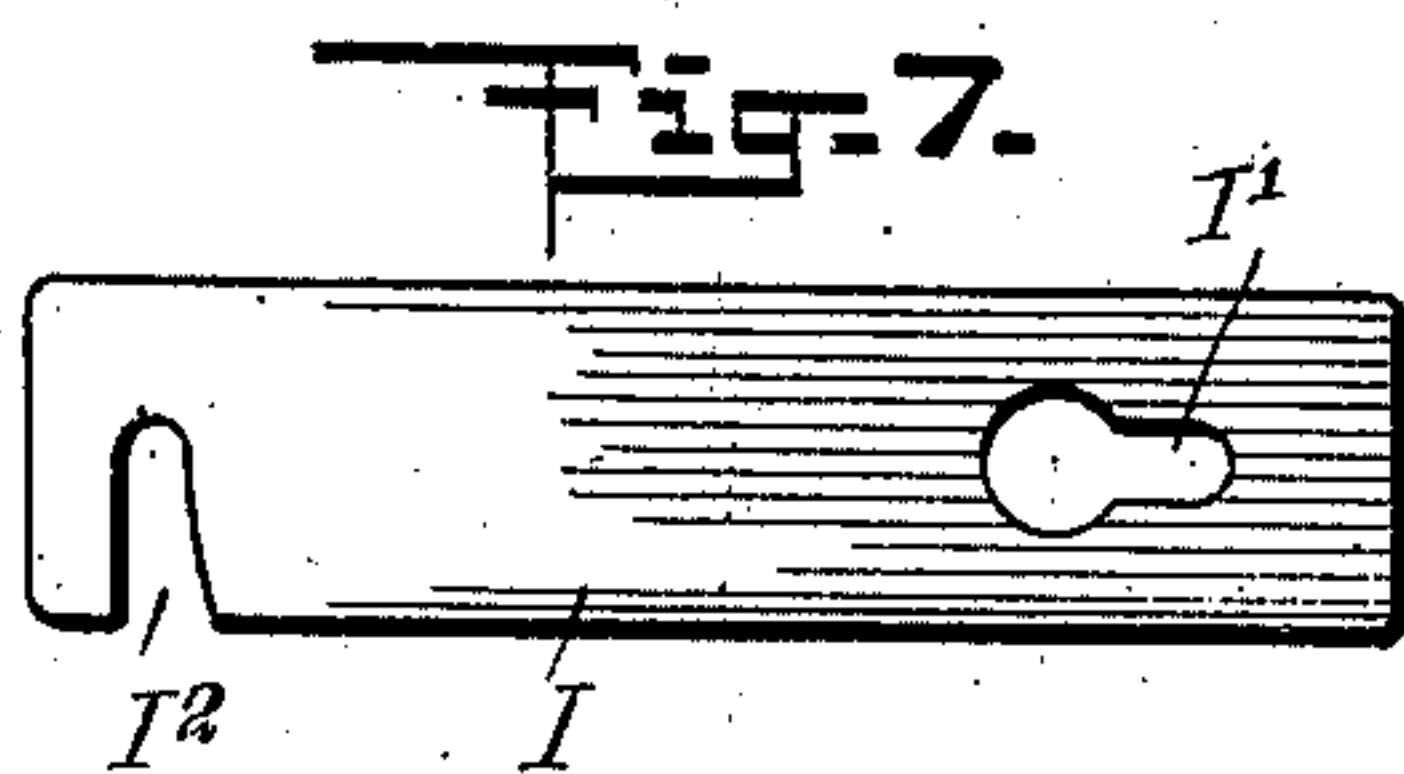
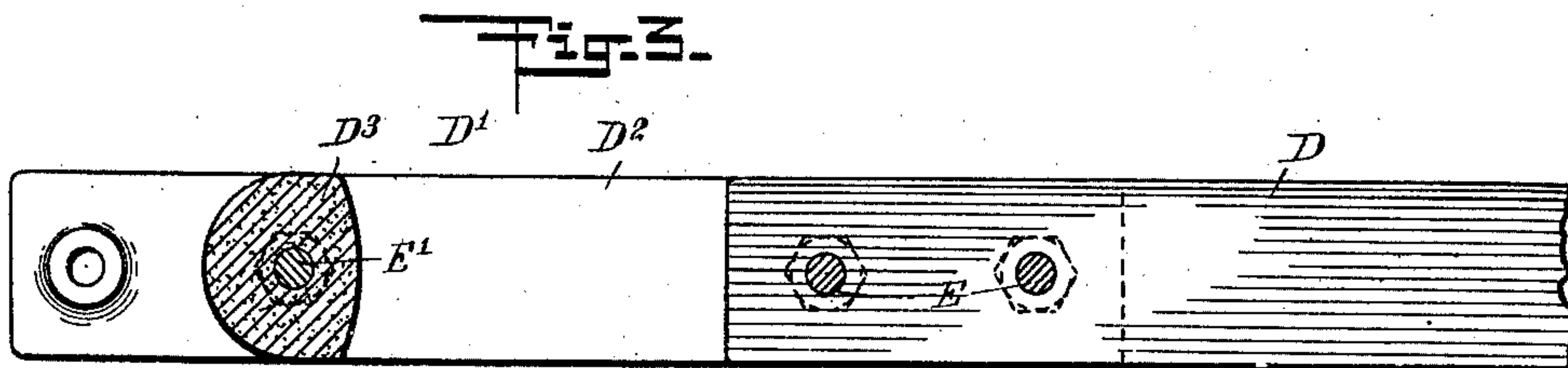
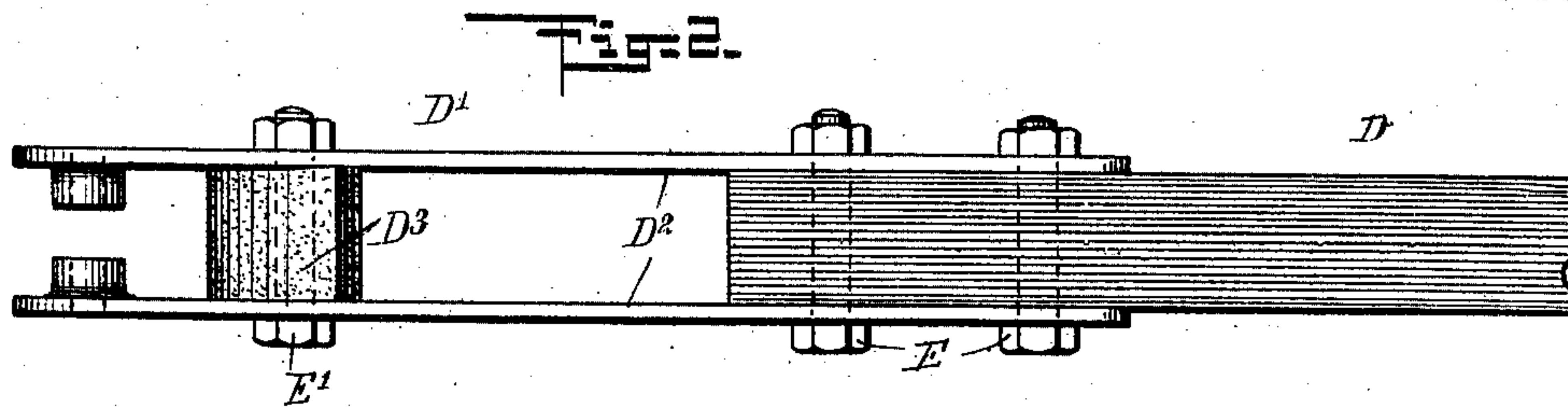
ATTORNEYS

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2 SHEETS—SHEET 2.



WITNESSES
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UNITED STATES PATENT OFFICE.

LEWIS E. MELLOR AND FREDERICK W. COLE, OF GUILFORD, MAINE.

PICKING MECHANISM.

976,673.

Specification of Letters Patent.

Patented Nov. 22, 1910.

Application filed January 29, 1910. Serial No. 540,773.

To all whom it may concern:

Be it known that we, LEWIS E. MELLOR and FREDERICK W. COLE, citizens of the United States, and residents of Guilford, in the county of Piscataquis and State of Maine, have invented a new and Improved Picking Mechanism, of which the following is a full, clear, and exact description.

The invention relates to power looms, and its object is to provide a new and improved picking mechanism, arranged to insure a proper motion of the picker stick without requiring leather straps or the like, and to permit of adjusting the sweep stick relative to the picker stick according to the power to be given to the picker stick for sending the shuttle through the open shed with more or less force. For the purpose mentioned, use is made of a sweep stick having a loop for engagement with the picker stick, and a supporting device independent of the picker stick for supporting the loop end of the said picker stick.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement as applied; Fig. 2 is an enlarged plan view of the sweep stick; Fig. 3 is a sectional side elevation of the same; Fig. 4 is a rear elevation of part of the picker stick rocker and power-regulating arm; Fig. 5 is a transverse section of the same on the line 5—5 of Fig. 4; Fig. 6 is a similar view of the same on the line 6—6 of Fig. 4; and Fig. 7 is a face view of the locking bar for holding the picker stick and the power-regulating arm in position on their studs on the rocker.

The rocker A is provided with a plate B, supporting studs B', B², of which the stud B' forms the fulcrum for the picker stick C, employed for sending the shuttle through the open shed in the usual manner. The picker stick C passes through the loop D' of the sweep stick D, receiving the usual motion from an actuating device to impart a swinging motion to the picker stick C, for the purpose above mentioned. The loop D' of the sweep stick D is formed by side plates D², fastened by bolts E to the outer end of the sweep stick D, and between the said plates D² is held a block D³ of leather, fiber or other suitable material, and fastened in place by a bolt E', engaging the side plates

D². Thus by the arrangement described, the picker stick C passes loosely through the loop D' between the end of the sweep stick D and the block D³, and a sufficient opening is formed to allow free motion of the picker stick C in the loop D'.

In the outer ends of the side plate D² is held a transversely-extending pivot F, engaged by the upper end of a power-regulating arm G, preferably made in two sections G', G², adjustably fastened together by a bolt H held on the lower end of the section G' and engaging an elongated slot G³ in the lower section G², so that the arm G can be lengthened or shortened to support the loop D' a desired distance above the fulcrum stud B' of the picker stick C. The upper end of the section G² is preferably provided with a loop G⁴, slidably engaging the upper section G'. The lower end of the section G² of the regulating arm G pivotally engages the stud B², so that the regulating arm G is supported from the rocker A and is hence wholly independent of the picker stick C. A locking bar I engages the outer ends of the studs B', B², to hold the picker stick C and the adjusting arm G in position on their studs. The locking bar I is made removable and for this purpose is provided at one end with an opening I' for engagement with an annular notch in the stud B' (see Figs. 1 and 5), and a notch I² is adapted to engage an annular notch in the stud B², as indicated in Figs. 1 and 6. The aperture I' is enlarged at one end, so as to permit of conveniently placing the bar I in position on the stud B', and by swinging the bar I up or down it is readily disengaged from or engaged with the stud B².

The picking mechanism shown and described is very simple and durable in construction, is not liable to get out of order, and requires no leather straps or similar parts, which have so frequently to be replaced in power looms as heretofore constructed.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

1. A picking mechanism, comprising a sweep stick having a loop formed of metal plates secured to and projecting from the end of the stick, and a block of leather between the plates intermediate of their ends, a rocker provided with headed studs, a

picker stick pivoted on one of the studs of the rocker and projecting through said loop, an adjustable regulating arm pivoted on the other stud of the rocker outside of the picker stick and between the ends of the plates of the sweep stick, and a locking bar having a detachable engagement with the studs for locking the picker stick and regulating arm on the rocker.

2. A picking mechanism, comprising a rocker having studs, a picker stick fulcrumed on one of the said studs, a sweep stick having a rigid loop engaging the said picker stick, a regulating arm fulcrumed on the other stud and pivotally connected with the said loop, and a locking plate removably engaging the said studs.

3. A picking mechanism, comprising a

rocker provided with studs having reduced portions near their ends, a picker stick fulcrumed on one stud, a sweep stick having a loop through which the picker stick extends, a regulating arm fulcrumed on the other stud and pivotally connected with the said loop, and a locking bar having a key-hole opening in one end for engaging one stud and a notch in its other end for engaging the other stud.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

LEWIS E. MELLOR.
FREDERICK W. COLE.

Witnesses:

HENRY HUDSON,
JAMES H. HUDSON.