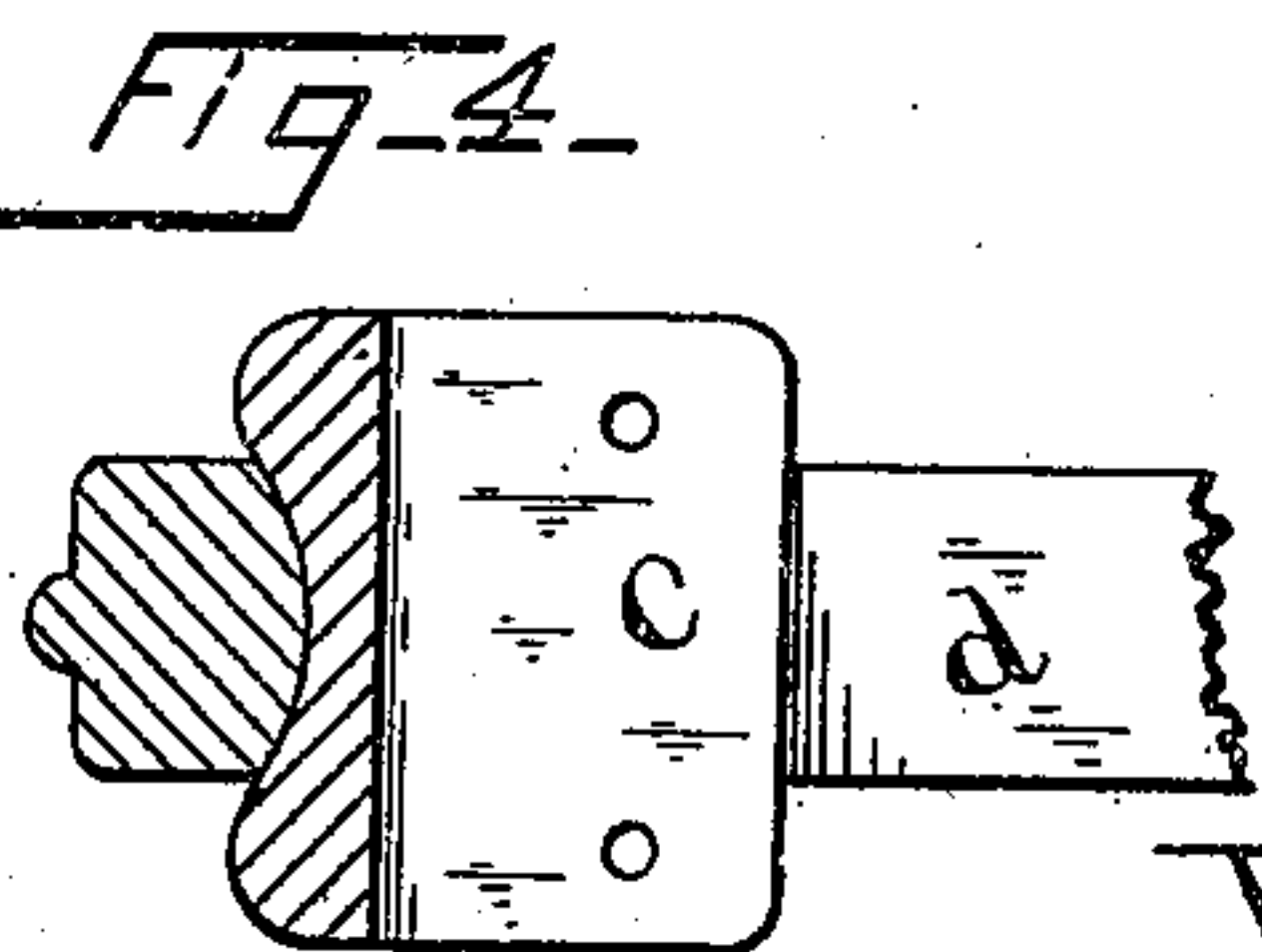
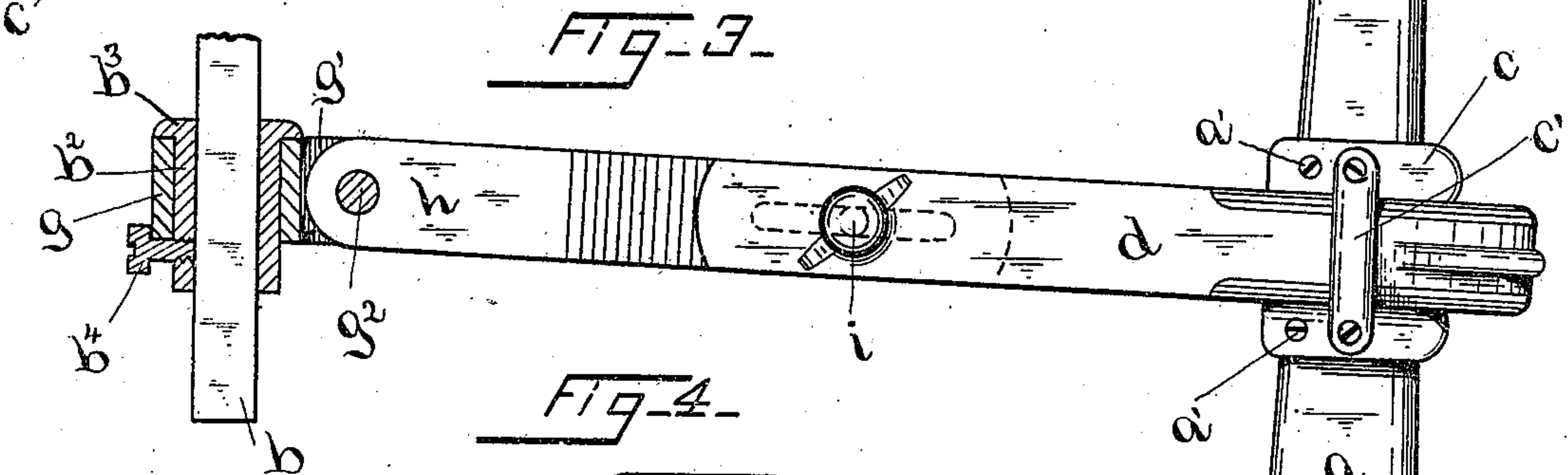
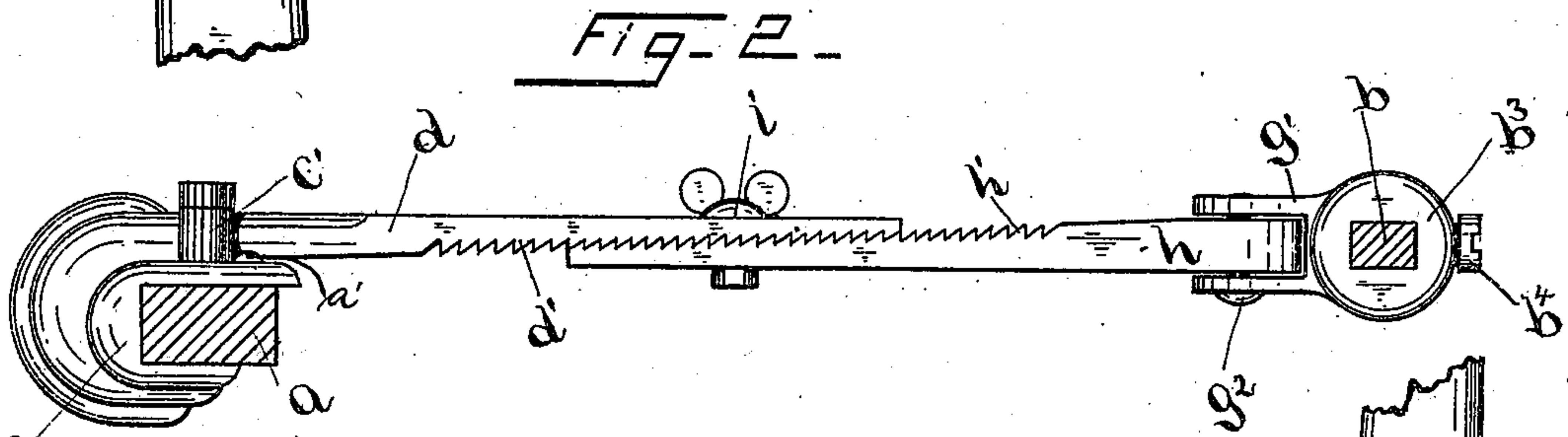
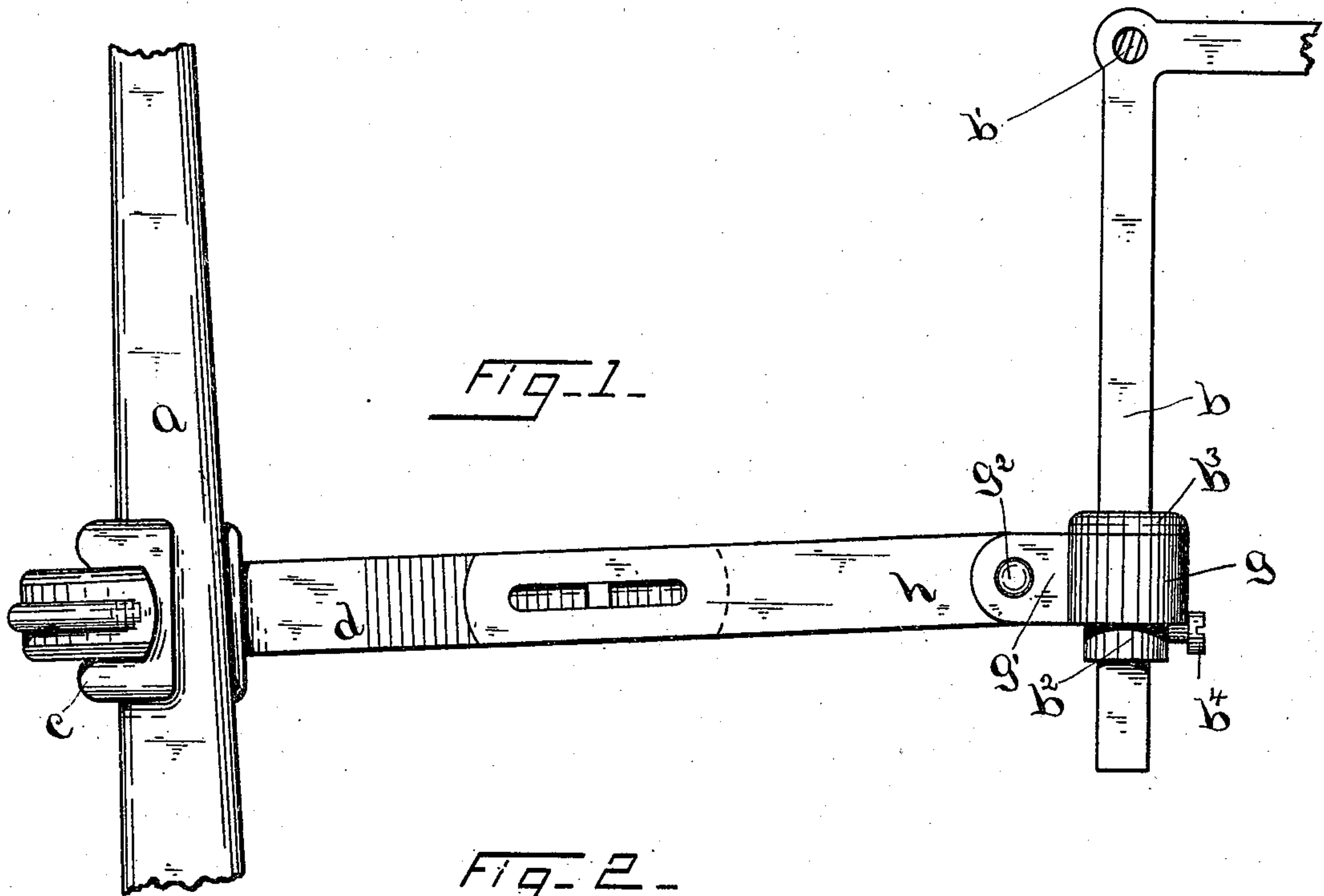


(No Model.)

T. H. WEBSTER & T. DOBSON.
LUG CONNECTION FOR PICKER STICKS.

No. 502,108.

Patented July 25, 1893.



Witnesses

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UNITED STATES PATENT OFFICE.

THOMAS H. WEBSTER AND TOM DOBSON, OF TAFTVILLE, CONNECTICUT.

LUG CONNECTION FOR PICKER-STICKS.

SPECIFICATION forming part of Letters Patent No. 502,108, dated July 25, 1893.

Application filed June 6, 1892. Serial No. 435,760. (No model.)

To all whom it may concern:

Be it known that we, THOMAS H. WEBSTER, a citizen of the United States, and TOM DOBSON, a subject of the Queen of Great Britain, residents of Taftville, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Lug Connections for Picker-Sticks, which improvements are fully set forth and described in the following specification, reference being had to the accompanying sheet of drawings.

This invention relates to the connection between the so called picker-stick of a loom and the mechanism by means of which a reciprocating movement is imparted to said stick, and the object of our invention is to provide a metallic substitute for the lug-straps of leather, canvas and like material, now so commonly used; to the end that a more serviceable connection may be provided.

To explain our invention more clearly the annexed drawings are provided, Figure 1 being a side view of a portion of a picker-stick having our new device properly connected therewith. Fig. 2 is a top view of the same, with the picker-stick and arm *b* shown in section. Fig. 3 shows the reverse side of Fig. 1, with the collar *b*² and section *g* in central vertical section. Fig. 4 is a vertical, sectional view of the picker-stick shoe and a portion of bar *d*.

In the figures the letter *a* denotes the picker-stick and *b* an arm mounted to rock upon a shaft *b*¹. The arm *b* is actuated at proper times by cam mechanism common to this class of looms, which actuating mechanism has no immediate relation to our present invention. Secured to the picker-stick, by screws *a*¹, at a point about opposite the free end of arm *b*, is a shoe *c* having projecting from one side a loop or staple *c*¹, in which is loosely fitted a bar *d*, one of whose ends is doubled back upon itself and incloses the shoe *c*. It should be kept in mind that the bar *d* is free to move lengthwise through the loop or staple *c*¹. Attached to the arm *b* is a collar *b*², having its upper end formed with a flange or head *b*³, the collar being secured in place upon the arm by a set screw *b*⁴ tapped into the lower end of said collar.

g denotes a cast metal section loosely mounted upon the collar *b*², between the flange and

set screw of the latter and free to swivel thereon. Section *g* is formed with laterally extending plates *g*¹ between which is hinged (on a screw or bolt *g*²) a bar *h* whose opposite end is secured to the free end of the bar *d*, already described, by a bolt and thumb-nut.

In order to make the bars *d—h* extensible upon each other we form the overlapping ends of each with a series of teeth *h*¹—*d*¹ that interlock with each other when the faces of the bars are brought together as in Fig. 2. The bolt-opening in bar *h* is considerably elongated to permit the extension of said bars.

By reference to Fig. 4 it will be seen that the outer face of shoe *c* and the engaging inner face of bar *d* are curved to fit each other, provision being thus made for relative changes of the positions of these parts as the picker-stick swings backward and forward and enabling said parts to preserve in all positions a substantial bearing against each other.

When the loom is in action, and bar *b* is thrown forcibly forward, our described lug connection acts, positively, to draw the picker-stick in the same direction.

By making our lug connection entirely of metal, or similar material, not easily worn out or broken, and by forming the same in a manner to insure easy movements of the operative portions, we are enabled to overcome some of the objections heretofore existing in this class of devices.

Having described our invention, we claim—

1. In a loom, in combination with a picker-stick and its actuating arm *b*, and a section *g* mounted to swivel on said arm, mechanism connecting said stick and arm consisting of a shoe secured to the stick, a two-part extensible arm *d—h*, having one end turned to hook around said shoe as set forth, and having its opposite end pivotally connected to said section *g*, substantially as and for the purpose specified.

2. In a lug connection for picker-sticks, in combination with said stick, a shoe secured to the stick having projecting from one side a loop as set forth, and a connecting arm turned to hook around said shoe and supported loosely in said loop with its other end pivotally connected with a swivel on the picker-stick-actuating arm; the outer face of the shoe and the engaging inner face of the

connecting arm being curved substantially as described and for the purpose specified.

3. In a loom, in combination with a picker-stick and its actuating arm *b*, a collar *b*² on
5 said arm, mechanism connecting the stick and arm and consisting of a shoe secured to the stick, an extensible arm of rigid material having one end turned to loosely embrace said shoe and a swivel loosely mounted on the col-
10 lar of the actuating arm *b* and having pivotal connection with the other end of the extensible arm, substantially as specified.

4. In a loom, in combination with the picker-stick and its actuating arm, mechanism con-
15 necting the stick and arm and consisting of a shoe secured to the stick and provided with a loop, an extensible arm endwise movable through said loop and having at one end a hook to loosely embrace the shoe, and a swivel

on the actuating arm and having pivotal con- 20
nection with the extensible arm, substantially as specified.

5. In a lug connection for picker sticks, in combination, a picker stick, an actuating arm, a collar thereon, having a flange at one 25
end and a set screw at the opposite end, said set screw engaging with said arm for holding the collar in position, a section loosely mounted upon the collar between the flange and the set screw, and an extensible arm, one end 30
of which is connected with the section and the other end is connected with the picker stick, substantially as set forth.

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Witnesses:

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