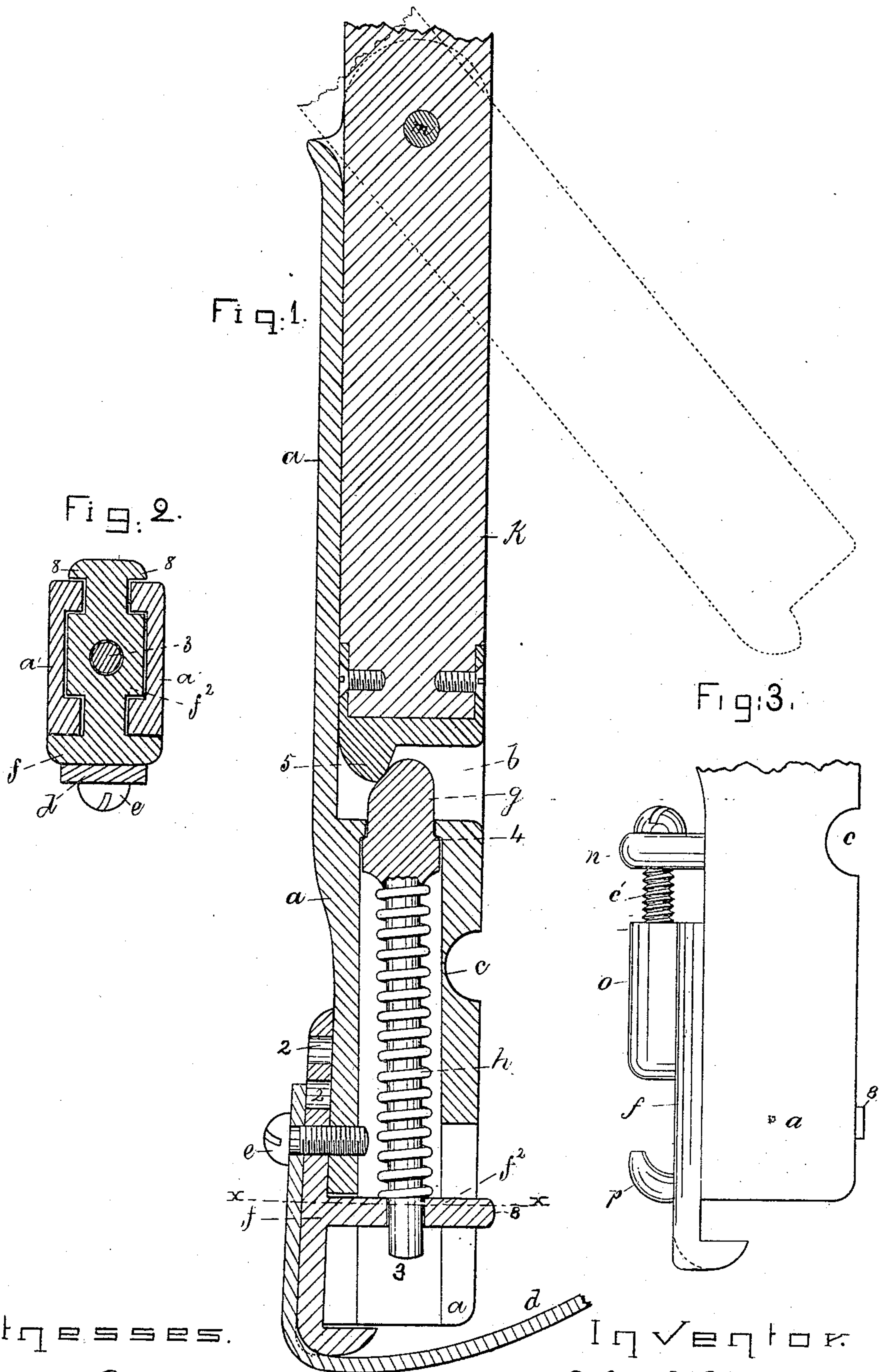


(No Model.)

S. C. CLATUR.
Picker Stick for Looms.

No. 238,485.

Patented March 8, 1881.



Witnesses.

Arthur Reynolds.
W. B. Whitney.

Inventor.

Silas C. Clatur.
by Crosby & Morgan, Attys.

UNITED STATES PATENT OFFICE.

SILAS C. CLATUR, OF MANCHESTER, NEW HAMPSHIRE.

PICKER-STICK FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 238,485, dated March 8, 1881.

Application filed July 22, 1880. (No model.)

To all whom it may concern:

Be it known that I, SILAS C. CLATUR, of Manchester, county of Hillsborough, State of New Hampshire, have invented an Improvement in Picker-Sticks for Looms, of which the following description, in connection with the accompanying drawings, is a specification.

This invention in looms relates to the picking mechanism; and it has for its object such a construction of the picker-stick that when the shuttle is trapped or caught the stick will yield, or its upper end will change its center of motion on a joint, which, when all parts of the loom operate correctly, is held locked.

My invention consists, essentially, in a compound picker stick or staff having a joint intermediate between its regular fulcrum and that part of it which strikes the shuttle, whereby, in case of obstruction to the shuttle, the staff will yield and not break the loom.

Figure 1 represents, in vertical section, the lower end of one of my improved compound picker-sticks; Fig. 2, a cross-section on the line *x x* in Fig. 1, looking upward; and Fig. 3 is a modification.

The foot part *a* of this compound picker-stick is made as a hollow metal case or box open at its front side, as at *b*, and provided with a recess, *c*, of usual construction to receive the usual fulcrum or support on or about which the picker-stick is vibrated or rocked, as in the well-known Crompton loom. The strap *d* will be moved as usual. Its outer end is attached, by the screw *e*, to the lower end of the foot part *a*, the said screw being also extended through the pressure-controlling device *f*. This pressure-controller is a metal plate having several holes, 2, by which to adjust its position vertically with relation to the foot part *a*. A lug, *f*², on the plate *f*, is extended through a slot at the bottom of the foot, (see Fig. 2,) and the said lug has suitable ears or lateral projections 8, to fit the upright or vertical parts of the foot, as seen in the said figure. The stem 3 of the locking-catch *g* enters a hole in the said ear *f*², and the latter serves as an adjustable seat for the spring *h*, that acts to press upward the said catch, a shoulder, 4, on the

catch limiting its upward movement. The upper end of the catch is suitably beveled or inclined to enable the metal toe 5 of the top part, *k*, of the stick to act upon and depress the catch against the stress of the spring *h*, whenever sufficient power is applied to the top part to turn it on its fulcrum *m*, which is the secondary fulcrum for the compound picker-stick.

When the shuttle is being thrown properly, the top part, *k*, stands in the shoe, as represented in full lines, Fig. 1; but should the usual sliding picker catch upon the box, or the top part meet with an obstruction more than it should withstand, or if the shuttle becomes trapped or caught with the top part, *k*, against it, then the top part will turn on the secondary pivot or fulcrum *m* into the position shown in dotted lines, it in its outward movement depressing the catch *g*.

The blow or strain required to turn the top part on the secondary fulcrum may be regulated by adjusting the plate *f* vertically.

In Fig. 3 I have shown the foot as provided at its rear side with an ear, *n*, and the pressure-controlling device *f* as provided with a threaded sleeve, *o*, into which a screw, *e'*, is inserted, by which to adjust the presser-controller. The hook *p* could in such case support the end of the strap *d*.

I claim—

1. The compound picker-stick composed of the metal foot and catch and the pivoted top part, *k*, engaged and held in a yielding manner by the said catch, to operate substantially as described.

2. In a picker-stick, the metal foot and catch, and top part pivoted at *m* on the foot part, combined with means to adjust the stress or force of the spring of the catch, as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SILAS C. CLATUR.

Witnesses:

G. W. GREGORY,
ARTHUR REYNOLDS.