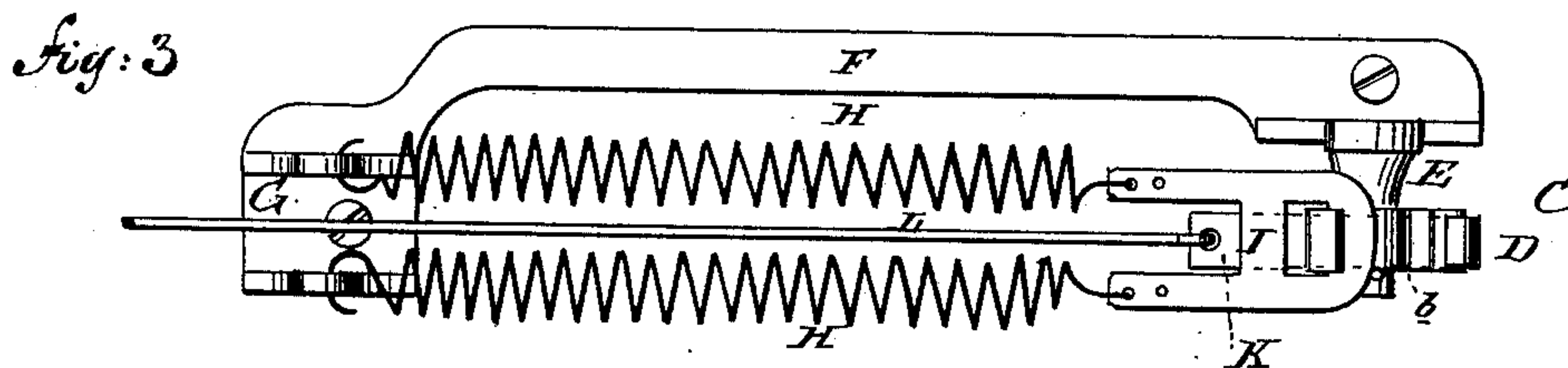
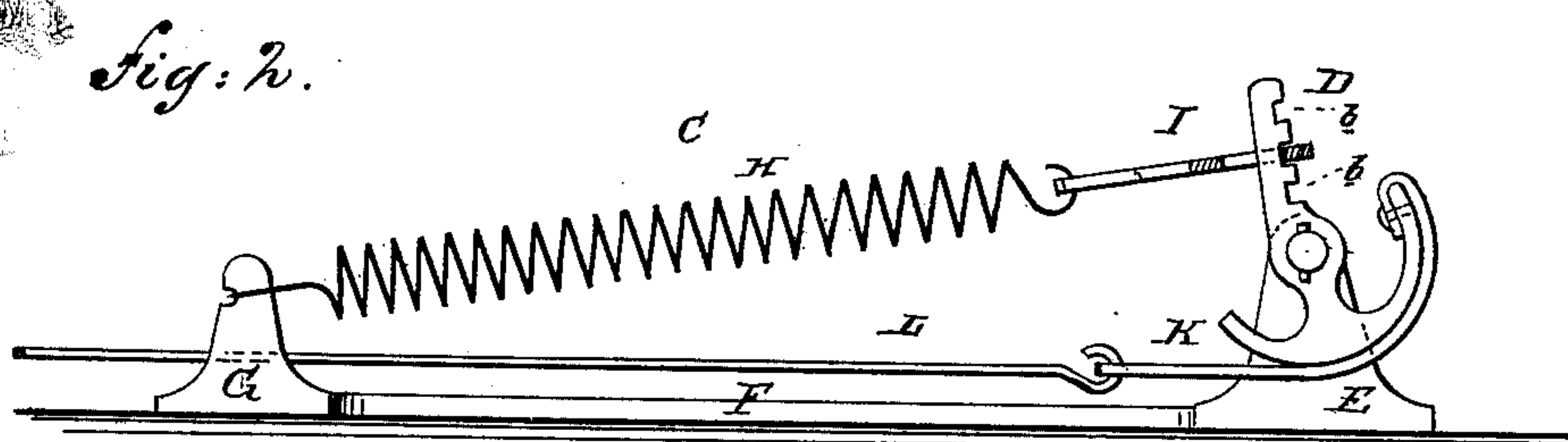
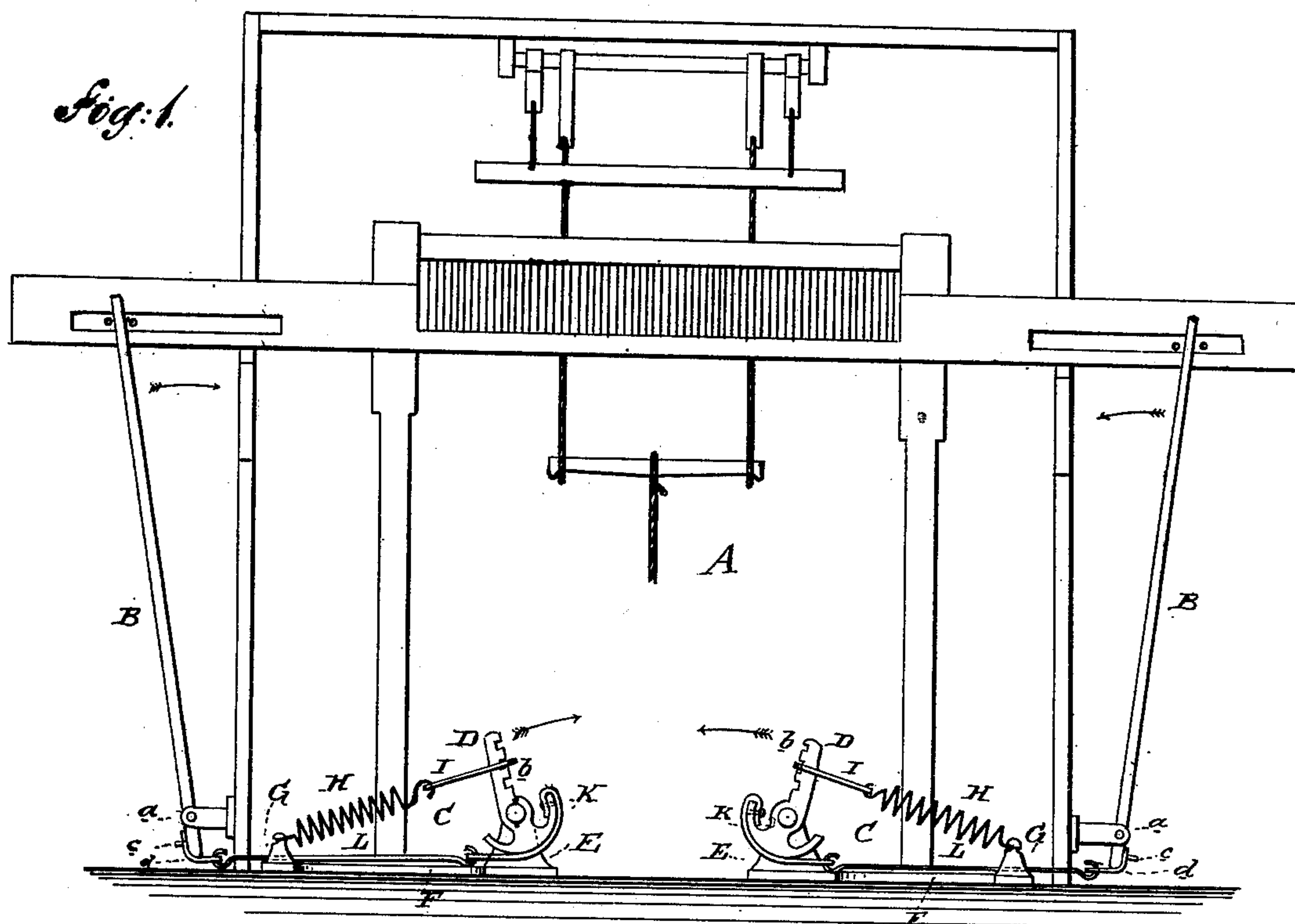


J. J. GEOGHEGAN.  
Retracting Device for the Picker Sticks of Looms.  
No. 231,305.                      Patented Aug. 17, 1880.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

JAMES J. GEOGHEGAN, OF WESTERLY, RHODE ISLAND.

## RETRACTING DEVICE FOR THE PICKER-STICKS OF LOOMS.

SPECIFICATION forming part of Letters Patent No. 231,305, dated August 17, 1880.

Application filed May 7, 1880. (No model.)

*To all whom it may concern :*

Be it known that I, JAMES J. GEOGHEGAN, of Westerly, in the county of Washington and State of Rhode Island, have invented a new and Improved Retracting Device for the Picker-Sticks of Looms, of which the following is a specification.

The object of my invention is to provide a simple, durable, and inexpensive device for pulling back the picker-sticks of looms, whereby the expenses and delays consequent upon the frequent breaking of the ordinary picker-stick spring will be avoided.

My invention consists of a rocking lever to one end of which the picker-stick is connected, while to the other end thereof weights or springs are attached to pull back the picker-stick after each forward motion.

Figure 1 is a front elevation of a portion of a loom, showing the improved device attached. Fig. 2 is a side elevation of the device, partly in section. Fig. 3 is a plan of the same.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents a portion of a loom, and B B picker-sticks in position thereon, said picker-sticks B B being pivoted in lugs *a a* of the loom in operating position.

C is the improved picker-stick-retracting device, which consists of a lever, D, pivoted on a standard, E, so as to move in a vertical plane, and having its lower arm, to which the picker-stick is connected, preferably segmental, while the opposite arm is straight and provided with several notches or grooves, *b b*, on its upper face for the adjustable engagement of weight or spring. Said standard E is supported on or made part of a bed-plate, F, on the opposite end of which plate F are one or more standards, G.

H represents one or more spiral springs—in this instance the springs having one end secured in a standard, G, and the other end engaged in a leathern strap, I, that is looped

over the upper arm of the lever D and held in one of the notches *b* thereof.

Each picker-stick B is provided with a projecting pin or stud, *c*, below the lug *a*, in which it is pivoted, and on this pin *c* is looped a flexible strap, *d*, that extends downward and around the end of the picker-stick, and is connected with a horizontal rod, L, that itself connects with a strap of leather or other flexible material, K, which is bent around the lower and segmental arm of the lever D, and is secured on the upper end of said arm. A picker-stick, B, when thrown in the direction of the arrows, Fig. 1, by means of the rod L and its connections, pulls upon the lever D, so that the upper arm of said lever moves in the direction of its arrow, as shown in Fig. 1, and against the springs H, elongating said springs, so that their elasticity shall quickly overcome the momentum of the said picker-stick B, and by means of the lever D throw said stick B back again to its primary position.

It will be seen that in this device the interposition of the lever D between the picker-stick B and the springs H renders the short springs herein shown as effective as well as more durable than the spring now in use for that purpose.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A retracting device for picker-sticks of looms, consisting of the bed-plate F, springs H H, strap I, lever D, and flexible strap K, adapted to be connected to the picker-stick of a loom, the said lever D being provided with the notches upon its upper arm, and having the segment at its lower end, as described.

JAMES J. GEOGHEGAN.

Witnesses:

JERRY QUIRK,

THOMAS LANAHAN.