(No Model.) 2 Sheets—Sheet 1.

A. BARSELOU.

ROCKER AND SHOE CONNECTION FOR LOOM PICKER STICKS.

No. 570,364. Patented Oct. 27, 1896.

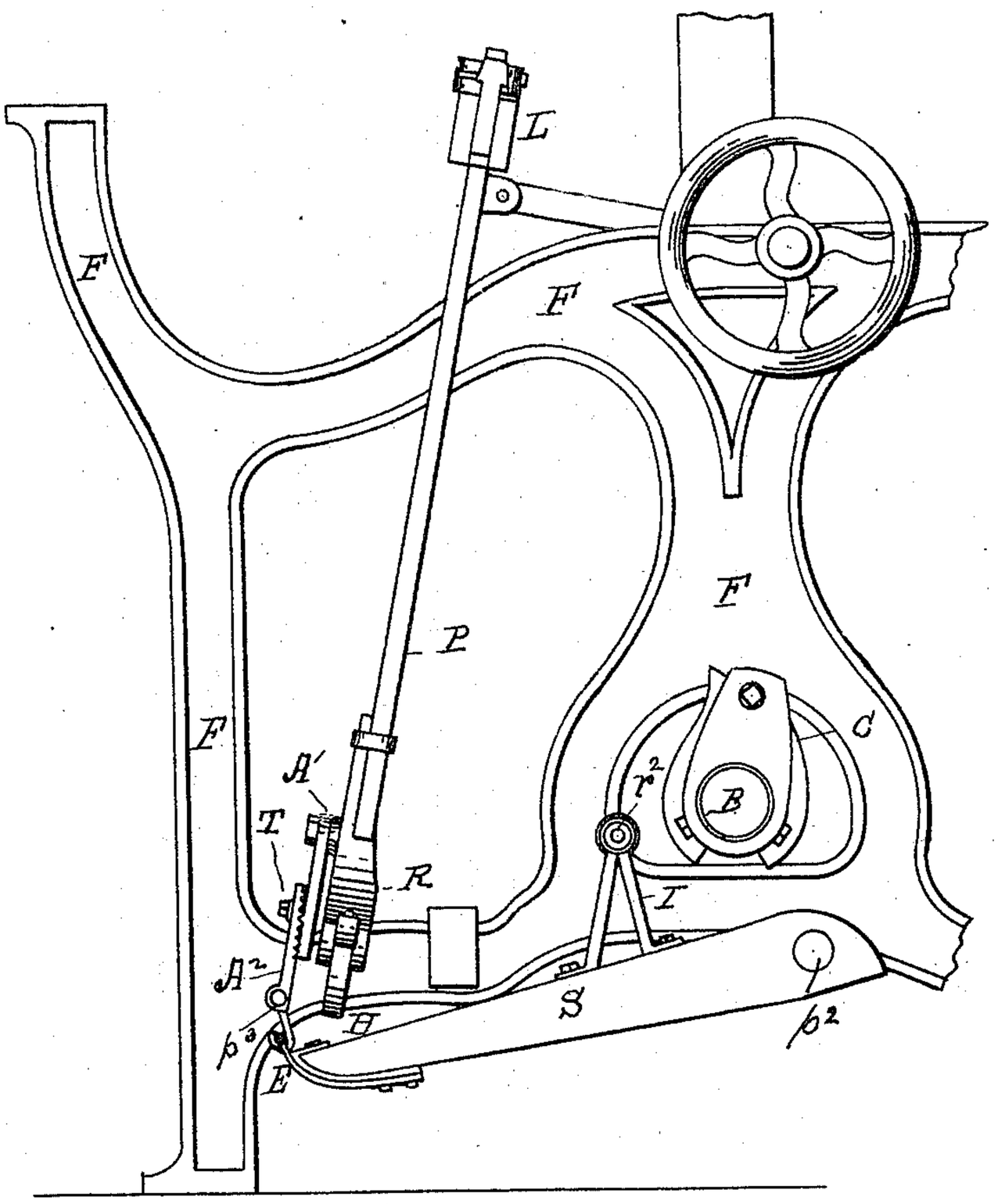

FIG 1.

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(No Model.) 2 Sheets—Sheet 2.

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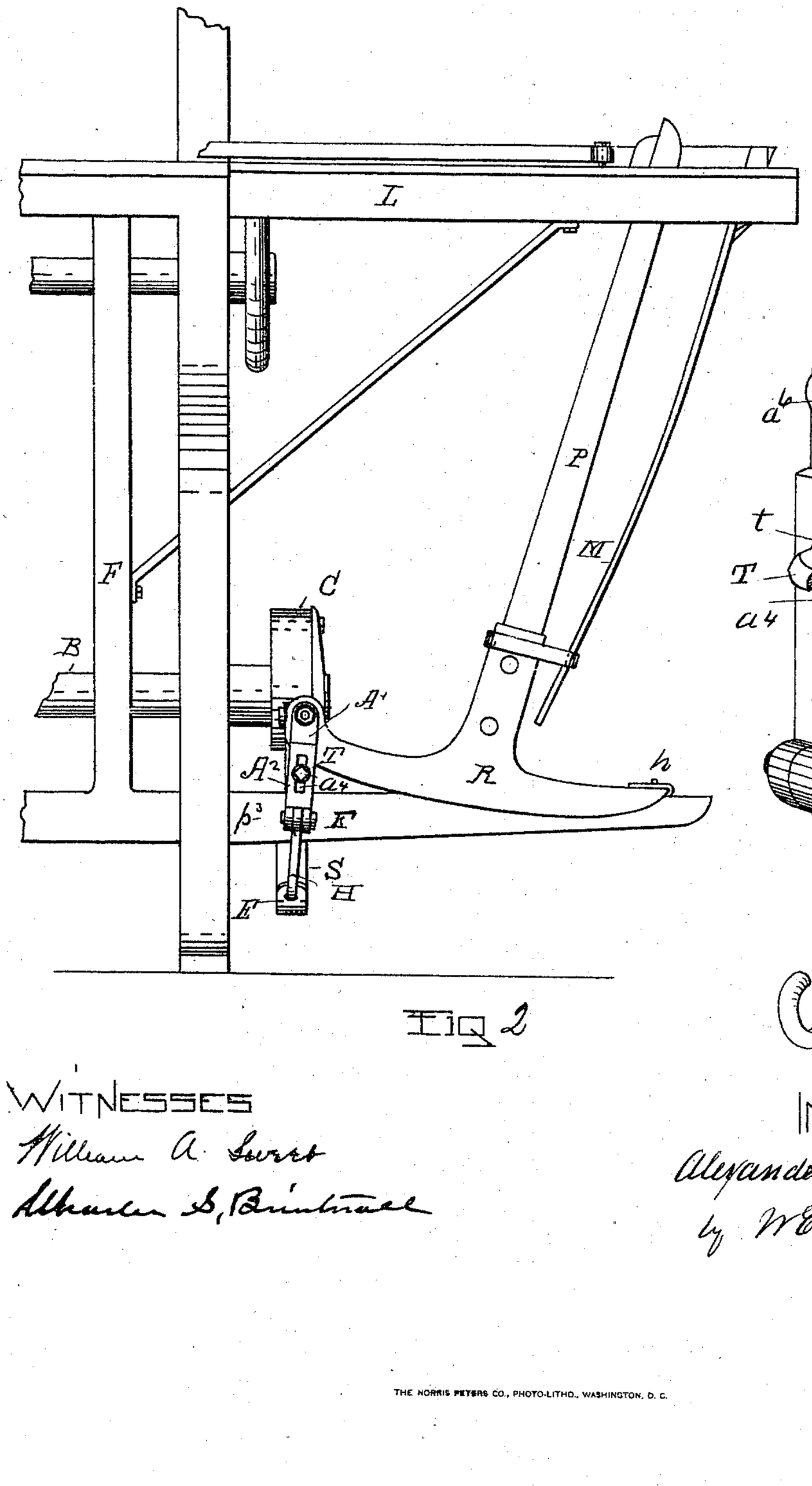

Fig 2

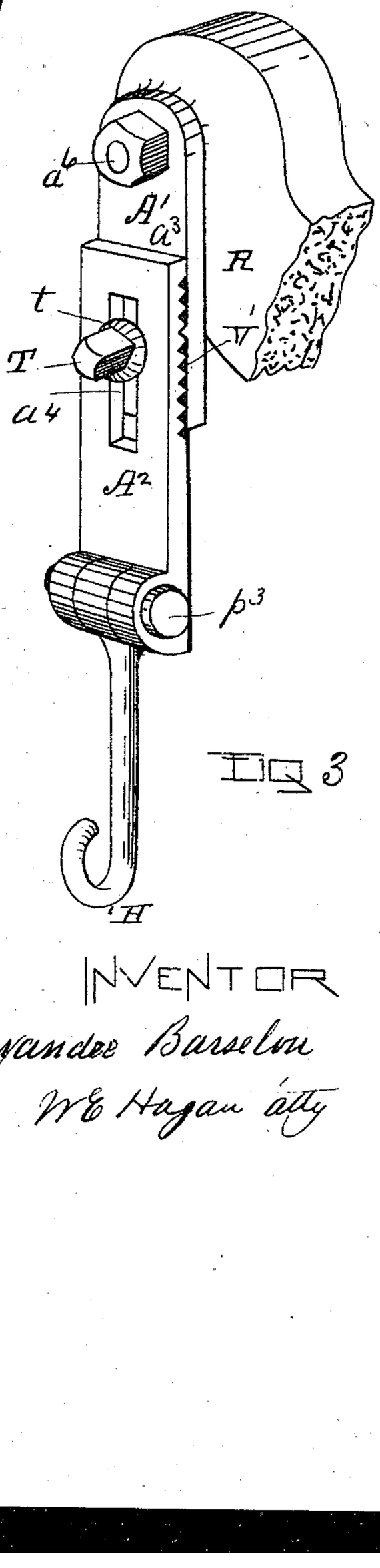

Fig 3

WITNESSES

William A. Swart

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UNITED STATES PATENT OFFICE.

ALEXANDRE BARSELOU, OF COHOES, NEW YORK, ASSIGNOR OF ONE-HALF TO L. N. MARCIL, OF SAME PLACE.

ROCKER AND SHOE CONNECTION FOR LOOM PICKER-STICKS.

SPECIFICATION forming part of Letters Patent No. 570,364, dated October 27, 1896.

Application filed March 6, 1896. Serial No. 582,018. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDRE BARSELOU, of the city of Cohoes, Albany county, State of New York, have invented a new and useful Improvement in Rocker and Shoe Connections for Loom Picker-Sticks, of which the following is a specification.

My invention relates to an improved connection between the rocker and shoe of looms by which the picker-stick is operated; and the object and purpose of my invention and improvements are to better adapt this class of devices to the uses for which they are designed and to construct them so as to make them adjustable as to the measure of movement given to the rocker and picker-stick.

Accompanying this specification to form a part of it there are two sheets of drawings containing three figures illustrating my invention, with the same designation of parts by letter reference used in all of them.

Of the illustrations, Figure 1 is an end view of a part of a loom-frame, showing the end of the lay, the picker-stick, the main driving-shaft, and its cam operating the shoe, and a side view of the connection made between the shoe and rocker, to which the picker-stick attaches. Fig. 2 is a view in elevation of a part of a loom-frame, showing the lay, the picker-stick, and the rocker, and a front view of the connection made between the rocker and shoe. Fig. 3 is a perspective of my improved mechanism for connecting the shoe and the rocker.

The several parts of the apparatus thus illustrated are designated by letter reference, and the function of the parts is described as follows:

The letter F designates that part of the loom-frame with which my improvement connects. The letter B designates the main driving-shaft, and the letter C a cam located on said shaft where projecting beyond the frame. The letter S designates the shoe, which is at its heel end, at p^2, pivoted to the frame, and the letter L designates the lay, P the picker-stick, and R the rocker, with which the picker-stick connects. The letter I designates a standard upwardly projected from the shoe, and r^2 a friction-roller arranged in the top of the standard for engagement with the cam which operates the shoe; all of which are of the usual and well-known form, and which, apart from the manner in which I connect the shoe and rocker, form no part of my invention.

The letter A′ designates a plate which at its upper end a^6 pivotally connects with that end of the rocker which is opposite to that which is hinged to the frame at h, and this plate A′ on its outer face a^3 is provided with a V-shaped rib V′, projecting therefrom at right angles to the side edges of the plate. The letter A^2 designates another plate provided with V-form recesses V^2, arranged side by side on the inner face of the plate, in which they are formed at right angles to the side edges of the plate, and each of these recesses is adapted to receive the ribbed projection V′ on the outer face of the underlapping plate A′.

The letter a^4 designates a slot made in the exterior plate A^2, and the letter T designates a set-screw which is passed through the slot a^4, to be threaded into the plate A′, and at its outer end this set-screw is provided with a collar t, by which when the set-screw is screwed inwardly this collar will straddle the slot, so as to hold the two plates A′ and A^2, with the rib V′, in such one of the recesses V^2 of the plate A^2 as is desirable to regulate the distance at which the shoe shall pull down the rocker and the measure of throw given to the picker-stick. The lower end of this plate A^2 is provided with a hook H, which latter is pivoted to the plate A^2 at p^3, and this hook is arranged to hook into the toe end of the shoe S in the eye E, formed therein.

As thus made the connection made between the shoe and the rocker, to which the picker-stick is attached, is adjustable as to length, is quite free from jar, and is much more durable than the ordinary leather loop used.

The operation of the mechanism thus described is as follows: The driving-shaft B, when revolving, causes its cam C to engage with the roller r^2, so as to force downwardly the shoe S on its hinged connection, thus pulling down the rocker and operating the picker-stick to throw the shuttle, with the picker-stick drawn back to its initial position after the cam has passed from off the roller r^2 by the return-spring M.

Having thus described my invention, what

I claim, and desire to secure by Letters Patent, is—

The combination with the shaft B, provided with the cam C, of the shoe S, pivoted at one of its ends to the machine-frame, and at its other end provided with an eye E, and between its ends having the friction-roller r^2, mounted on a standard I; the rocker R, having the up-cast picker-stick P, and return-spring M; the plate A′, pivotally connecting with said rocker, and provided with the projecting rib V′; and the plate A^2, being cross-ribbed on its inner face and having a hook H, pivoted thereto at p^3, and made to adjustably connect with the plate A′, by means of a slot formed in said plate A^2, and a set-screw, substantially as and for the purposes set forth.

Signed at the city of Troy this 16th day of December, 1895, and in the presence of the two witnesses whose names are hereto written.

ALEXANDRE BARSELOU.

Witnesses:

CHARLES S. BRINTNALL,

W. E. HAGAN.