

N. CHAPMAN.
Loom-Temples.

No. 144,507.

Patented Nov. 11, 1873.

Fig 1.

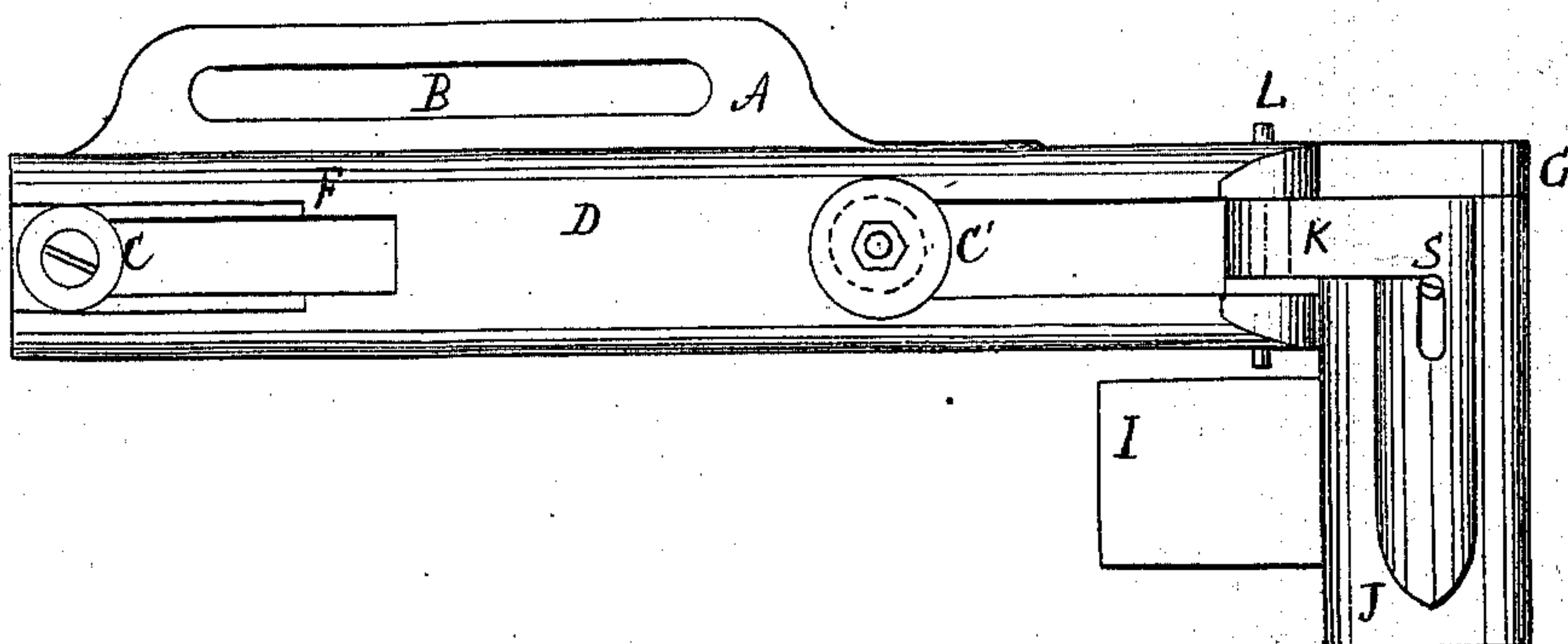


Fig 2.

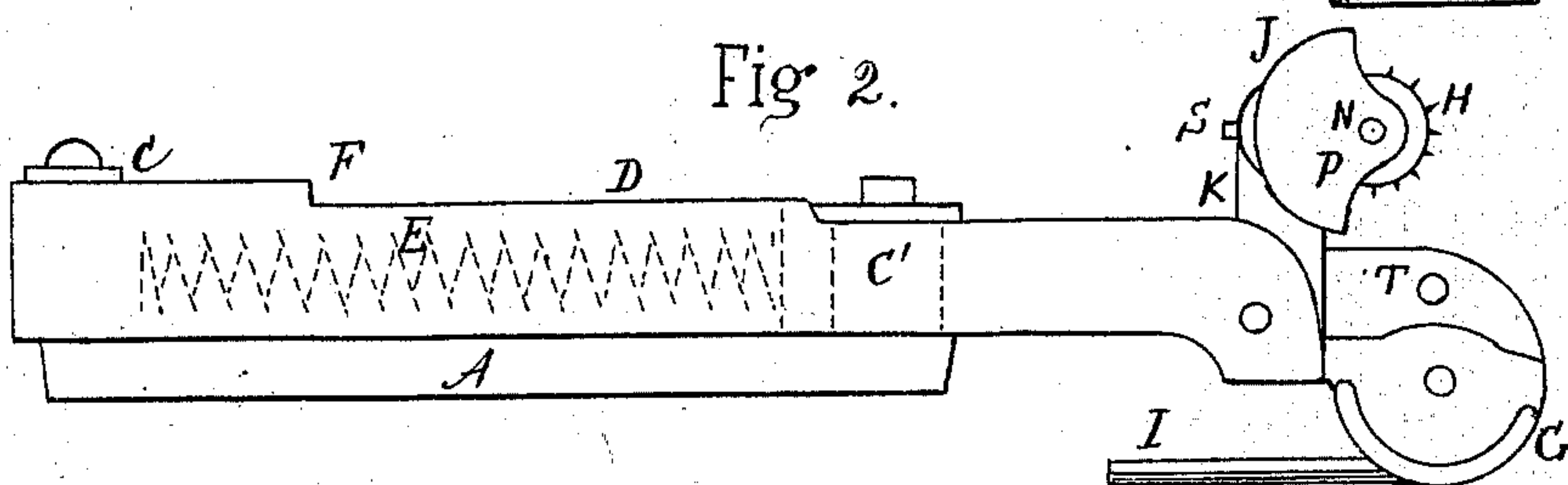
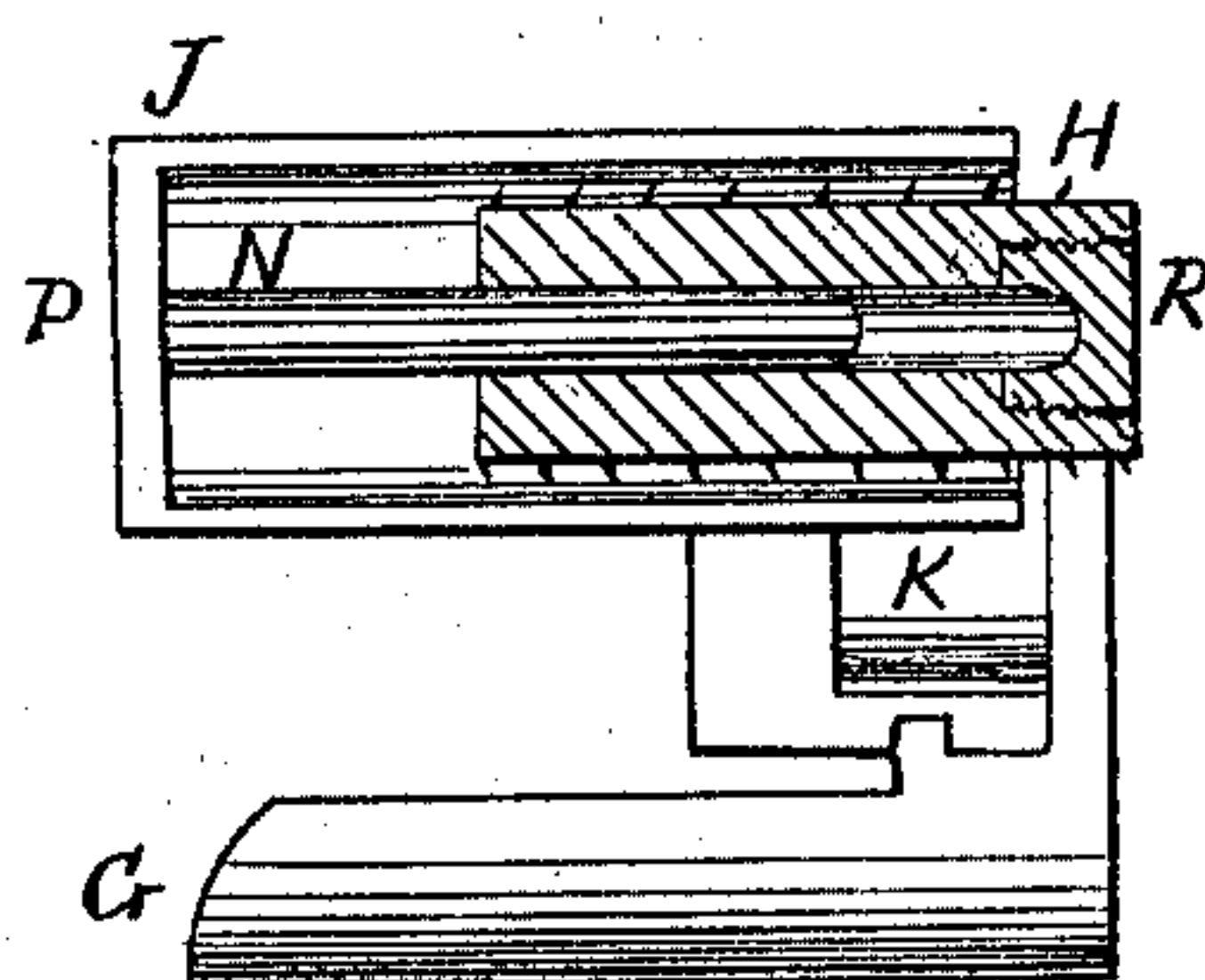


Fig 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

NATHAN CHAPMAN, OF HOPEDALE, MASSACHUSETTS.

IMPROVEMENT IN LOOM-TEMPLES.

Specification forming part of Letters Patent No. **144,507**, dated November 11, 1873; application filed October 29, 1873.

To all whom it may concern:

Be it known that I, NATHAN CHAPMAN, of Hopedale, Worcester county, in the State of Massachusetts, have invented certain new and useful Improvements in Loom-Temples; and I hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings forming part of this specification.

The nature or essence of my invention consists in fastening the pin on which the toothed roller turns to the inner end of the case or trough in which said roller turns, and to the inner end only, so that the roller can be readily slipped off the pin to clean and oil it.

In the drawing, Figure 1 is the plan of a temple with my improvements. Fig. 2 is an elevation of one side, and Fig. 3 is an elevation of the front end with the cap turned up.

In the above-mentioned drawings, A is a stand, to be fastened to the breast-beam of the loom by one or more bolts in the slot B. This stand has two vertical studs, C and C', to which the stock D is fitted, and on which it is arranged to traverse, the stock being slotted for the studs to pass through, which studs are provided with washers fastened by screws or nuts, which hold the stock on the studs and allow it to traverse freely.

The stock D is cast hollow, and the stud C is fitted to it, with a spiral spring, E, in the stock, which acts between the stud C and a stop in the stock, to keep the stock pushed forward and allow it to be pressed back, and when it is pressed back the spring E throws up the rear end, so that the notches F catch behind the washer on the stud, and hold the stock back until it is pressed down to release the notches when the spring pushes it forward.

The stud C' is a pivot fastened in the stand A, and provided with a roller, which turns freely on the pivot in the slot of the stock, to lessen the friction of the stock when it traverses.

The fore end G of the stock D is turned off at a right angle and hollowed out, so that its two edges press the cloth, as it is woven, against and onto the teeth in the roller H. The fore end G has the arm I projecting from it, to

which a stand is fastened, with a vertical arm for the screw in the lay to strike against and hold the temple in a proper position in relation to the lay.

The cap J may be made in the form shown in the drawings, or in such other form as will answer the purpose, and is provided with a shank, K, by which it is hinged in the slot of the stock D by the pin L, on which it vibrates; and the under side of this cap J is hollowed out to receive the roller H, which turns on the pin N, fastened in the lug P on the inner end of the cap J. The outer end of the cap J is left open, so that when the cap is raised up, as shown in Figs. 2 and 3, the toothed roller H may be slipped off of the pin N to clean and oil it.

The roller H is made of hard wood, with steel points or teeth set in it, and with a metal bushing, R, fastened or screwed into one end, to turn on the end of the pin N and hold the roller against the draft of the cloth, and relieve the opposite end from the wear and friction of turning against the lug.

Instead of the metal bushing R, the roller H may be bored only partly through, and used without a bushing, or with a bushing inserted at the open end, if preferred.

In this temple, constructed as above described, the cloth passes under the toothed roller; but if, for any cause, it should be desirable to have the cloth pass over the toothed roller H, the lug to hold the pin N may be cast on the inner end of the trough G, and the inner end of the cap J left open, the outer end of the trough G being made open, so that when the cap J is raised the roller can be slipped off the pin.

There is a cavity in the top of the cap J for the spring-bolt S to traverse, which catches in a hole, T, in the stock, and locks the cap down.

What I claim as my invention and improvement in the above-described temple is—

The pin N for the toothed roller to turn on, fastened to the inner end of the roller-case, and to the inner end of the case only, substantially as described.

NATHAN CHAPMAN.

Witnesses:

JEFFERSON ALDRICH,
JOHN N. TABER.