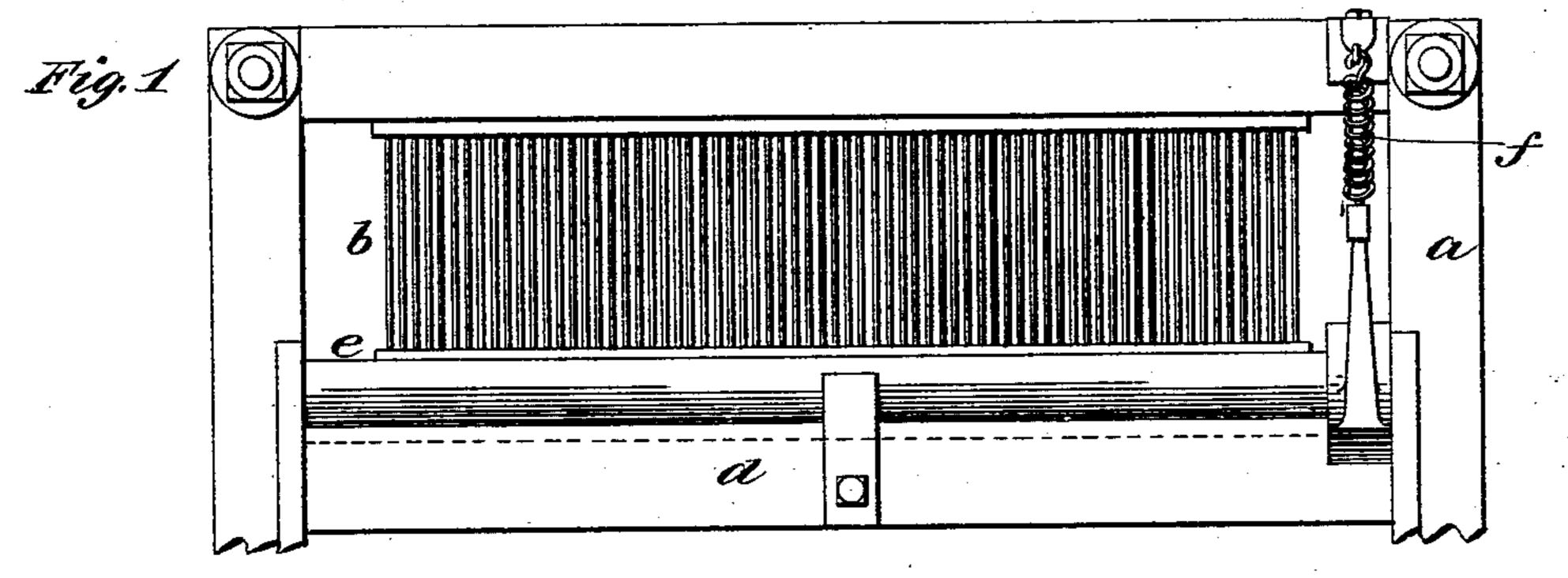
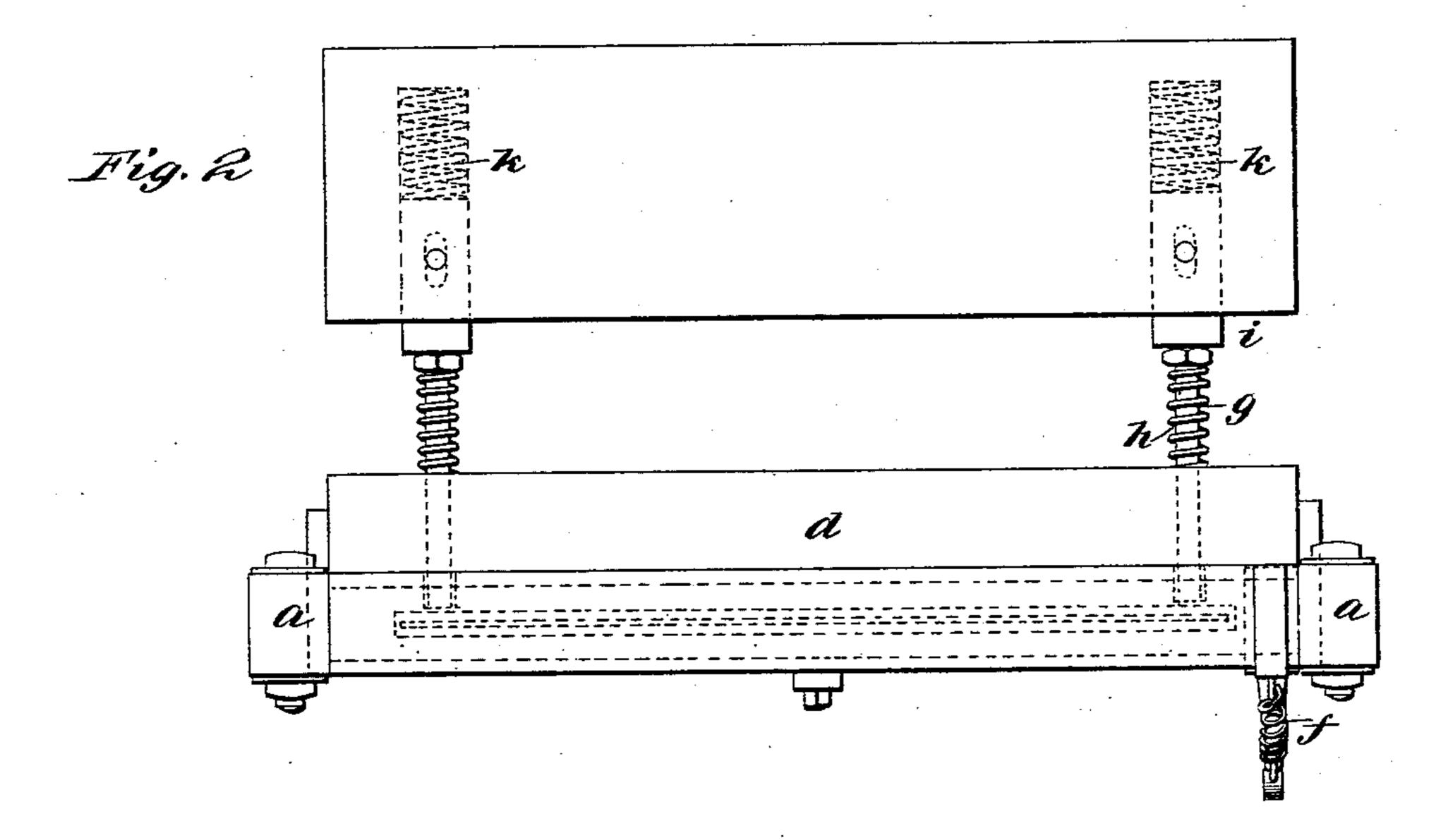
(No Model.)

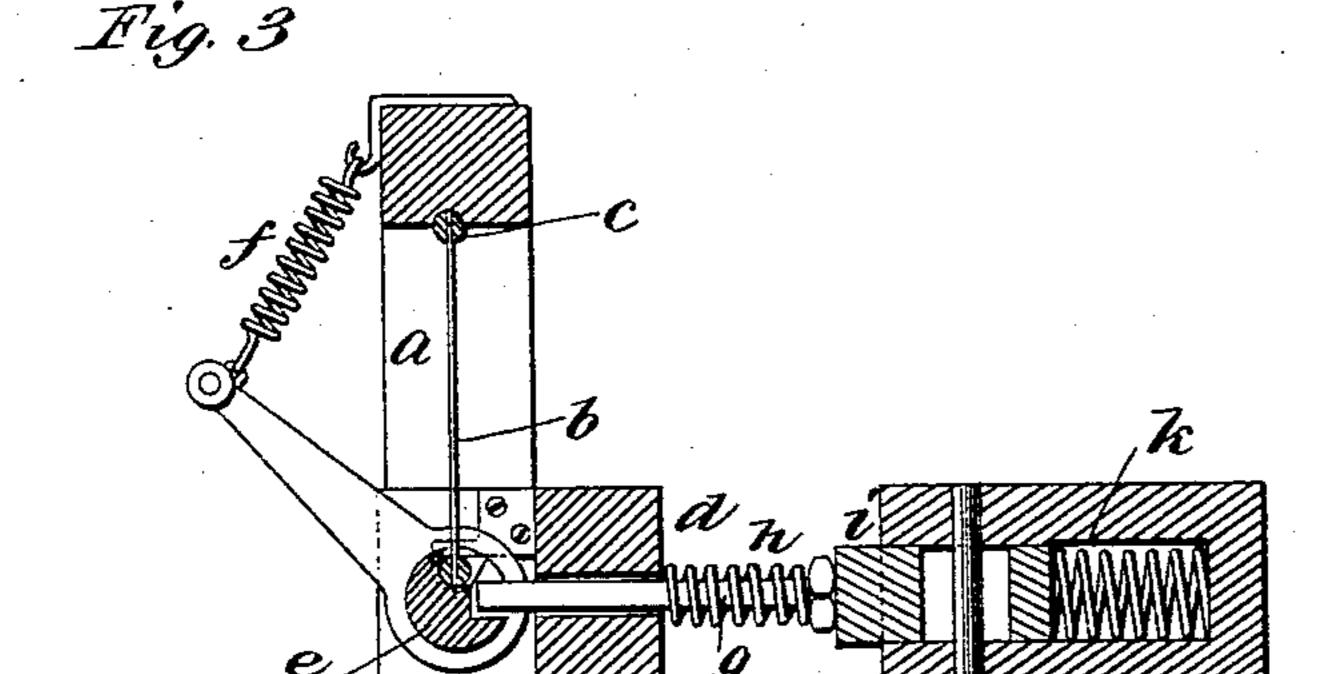
E. POEHNERT. LOOM.

No. 571,956.

Patented Nov. 24, 1896.







Witnesses Albert Popkins Carried acher. Inventor
Edward Pochnert

By. W. Simula

Attrib

United States Patent Office.

EDWARD POEHNERT, OF ROCKVILLE, CONNECTICUT.

LOOM.

SPECIFICATION forming part of Letters Patent No. 571,956, dated November 24, 1896.

Application filed January 31, 1895. Serial No. 536,810. (No model.)

To all whom it may concern:

Be it known that I, EDWARD POEHNERT, a citizen of the United States of America, residing at Rockville, in the county of Tolland 5 and State of Connecticut, have invented a certain new and useful Improvement in Looms, of which the following is a description, reference being had to the accompanying drawings, wherein—

Figure 1 is a front view of those parts of a loom to which my improvement particularly pertains. Fig. 2 is a top view of such parts. Fig. 3 is a view of the same parts in vertical section on the plane x x.

The object and purpose of the improvement is the prevention of injury to the parts of the loom and to the cloth which is being woven therein if a shuttle or other obstacle is caught accidentally between the reed and the warp-20 shed in the beating-up motion of the lay.

The drawings show only the pertinent parts

of the loom.

The letter a denotes the lay as a whole, which has in practice the ordinary recipro-25 cating or vibratory motion, and b denotes the reed. The reed is not fast in the lay, as is the more common practice, but its upper edge is rather loosely seated in the groove c, formed in the under side of the cross-piece which 30 connects the two vertical arms of the lay. The lower edge of the reed is held in place between the cross-piece d and the reed-confiner e. The reed-confiner e is in a general sense a roll with trunnions at the ends jour-35 naled in the upright arms of the lay and having some rotary motion. The reed-confiner is held in a position to confine the lower edge of the reed between it and the cross-piece dby means of the reed-confiner spring f; but, 40 so far as the action of the spring f is concerned, if the reed in its beating-up motion strikes a shuttle or other obstacle in the warpshed, the backward pressure thus put upon the reed readily overcomes the opposing pres-45 sure of this spring, the reed-confiner rolls backward, and the reed is wholly released from its seat, remaining hanging loosely upon the warp-shed; but if the reed properly seated in its place is carried by the beating-50 up motion of the lay substantially beyond the point where it must meet a shuttle, if one is accidentally lying in the warp-shed, then the

reed is locked in place in order that it may properly beat up the weft-thread by means

which I will now describe.

The letters g denote reed-confiner locks which are simply pins having some back-andforth motion, being loosely held in openings in the cross-piece d, prepared for their reception, and for the most of the time held out of 60 contact with the reed-confiner by means of the springs h, the said pins being allowed play between the bunter i' and the reed-confiner e, the spring h bearing against the crosspiece d at one end and the head of the pin at 65 the other to retract the confiner-locks. Just as the reed is about to beat up a weft-thread into its place, as a part of the piece of cloth that is being woven, these reed-confiner locks strike the bunters i and are thereby forced 70 forward into the sockets e' in the reed-confiner. In such position they lock the reed firmly in its place to accomplish its normal and proper beating-up function, the springs k permitting the necessary beating-up motion 75 of the lay, but holding the reed locked in place nevertheless. When the reed retreats in the backward motion of the lay and the locks gcease to have contact with the bunters i, the reed-confiner is unlocked and remains un- 80 locked until another beating-up motion of the lay again brings the locks g into contact with the bunters i.

The bunters i have just been spoken of as though they were practically rigid and sta- 85 tionary. As a matter of fact they rest against springs k, which are considerably stouter (that is, resist compression with greater degree) than the lock-springs h, so that the action so far described will take place if every- 90 thing goes on as it should, but if for any reason the locks g should not properly enter the sockets e' in the beating-up motion of the lay, then these springs k will permit the bunters i to retreat and so prevent breakage of the 95 parts of the loom.

It will be readily understood that the springs f, the locks g, the springs h, the bunters i, the sockets e', and the bunter-springs k may be more or less in number as experience and 100 judgment dictate.

I claim as my improvement—

In a loose-reed motion the combination of a lay having the lower and upper cross-pieces, a reed, a rotatable reed-confiner having a socket and a spring for turning the confiner to hold the lower edge of the reed between the said confiner and lower cross-piece, a reed-confiner lock carried by the lay, a spring for normally holding the lock retracted from said socket, and a yielding bunter on a fixed part

of the loom with which the lock engages to force the same into the socket near the end of the beat-up, substantially as described.

EDWARD POEHNERT.

Witnesses:
W. E. SIMONDS,
LEOPOLD KRAUSE.