

J. Simpson.
Weaving Temple.
N^o 92,890. Patented Jul. 20, 1869.

Fig. 1.

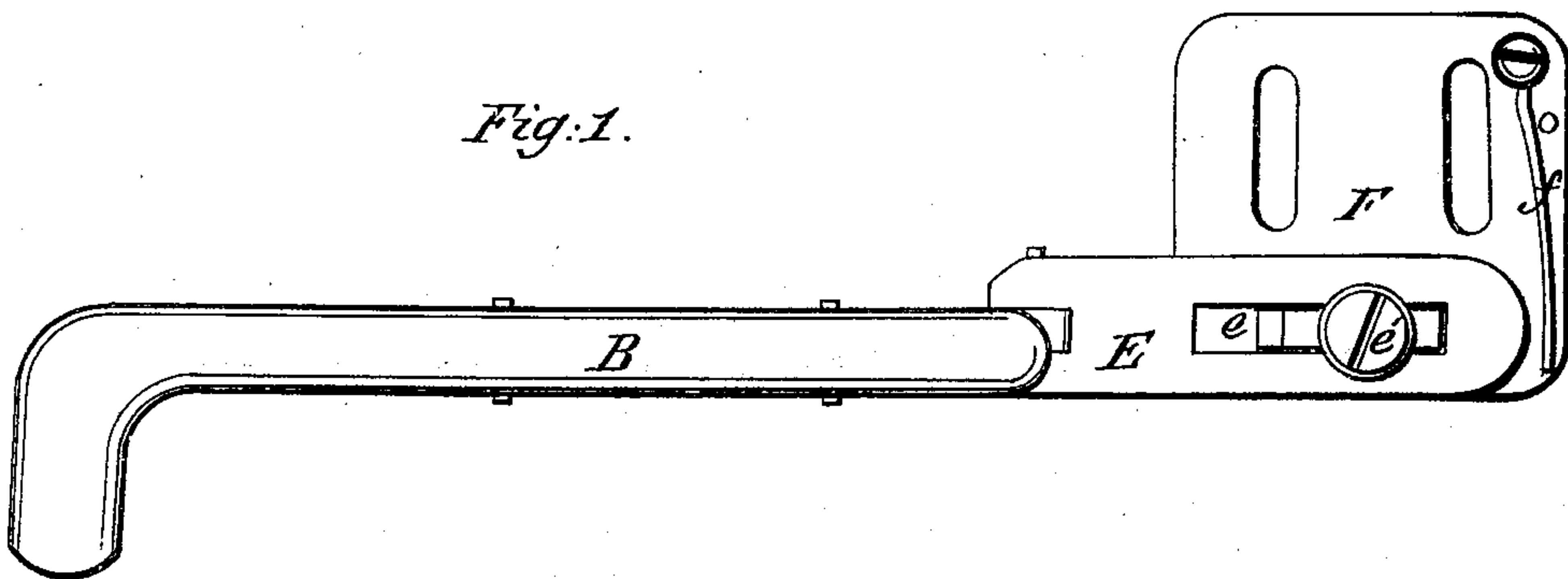
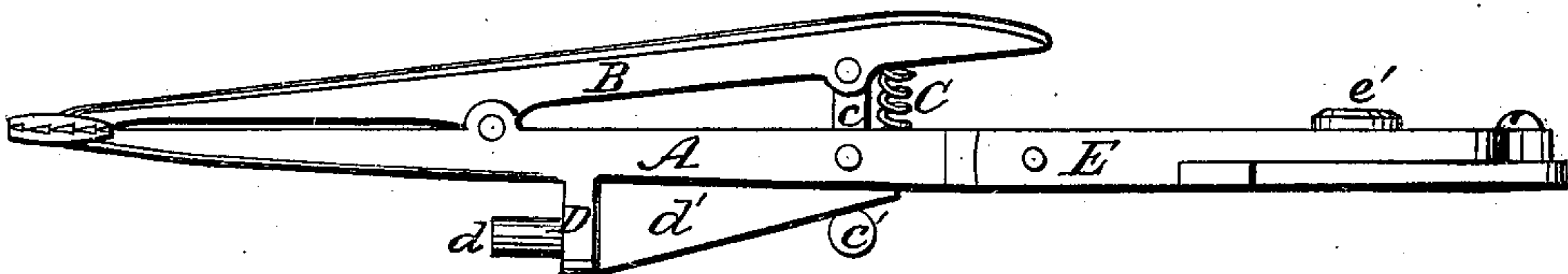


Fig. 2.



Witnesses:

Jud. Thomas.
E. A. Clarkson

Inventor.

Joseph Simpson, by
H. W. Beadle, atty.

United States Patent Office.

JOSEPH SIMPSON, OF MILLBURY, MASSACHUSETTS.

Letters Patent No. 92,890, dated July 20, 1869.

IMPROVEMENT IN TEMPLE FOR LOOM.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOSEPH SIMPSON, of Millbury, Worcester county, Massachusetts, have invented a new and improved Loom-Temple; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to certain improvements in cloth-holding devices for looms, and consists in certain details of construction, which will be more fully described hereinafter.

In the drawings—

Figure 1 is a plan view of my invention; and

Figure 2, a side elevation of the same.

To enable others skilled in the art to make and use the same, I will proceed to describe fully its construction and operation.

A represents the shank of the lower jaw, to which is pivoted the upper shank B, both of which are bent at right angles at their outer ends, and are provided with diagonal teeth, which form the gripping part of the jaws.

The upper shank is pivoted near its centre, and its rear end slants upward, so as to admit of a sufficient depression thereof, to raise the forward end and open the jaws, which are kept closed by the spiral spring C, the ends of which rest in recesses in the upper and lower shanks, near the rear ends of the same.

c represents a guide or strip, which is pivoted to the under side of the shank B, and passes through an elongated slot in the shank A, terminating in the transverse circular piece c'.

On the under side of the shank A is a projection, D, having an orifice, through which passes a circular bolt or bumper, d, rigidly attached to ridge-shaped piece, d'.

This latter is slotted vertically nearly its whole length, and through this slot passes the strip c, the

point of the wedge d being between the piece c' and the shank A.

E represents a continuation of the shank A, which is hinged to the rear end of the same, and secured by means of the slot e and set-screw e', to the slotted plate F, and has a free longitudinal-sliding motion thereon, the latter being attached to the breast-beam of the loom.

f represents a spring, one end of which is attached to the plate F, and the other presses against the end of the piece E.

The device is operated by means of the "lay" beating up and striking the bolt d, and driving it with the wedge d' backward, thereby drawing down the piece c', and with it the guide c, and opening the jaws sufficiently far to release the cloth.

When the lay recedes, the wedge follows it and the jaws close.

When the harnesses open the shed, the hinged shank yields sufficiently to relieve the strain on the warp and selvages.

The spring f serves to keep the temple in its proper position.

Having thus fully described my invention,

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

1. The wedge-shaped piece d' and bolt d, in combination with the guide c, piece c', spring C, and shank B, arranged and operated substantially as and for the purpose set forth.

2. The combination, with a temple, constructed as described, of the hinged shank E, with its slotted portion e, in combination with the plate F and spring f, as and for the purpose described.

This specification signed and witnessed, the 27th day of February, 1869.

Witnesses:

JOSEPH SIMPSON.

SMITH THOMPSON,

SIMON HUTCHINSON.