

No. 678,241.

Patented July 9, 1901.

T. GILSON.

PICKER MECHANISM FOR LOOMS.

(Application filed Oct. 23, 1900.)

(No Model.)

Fig. 1.

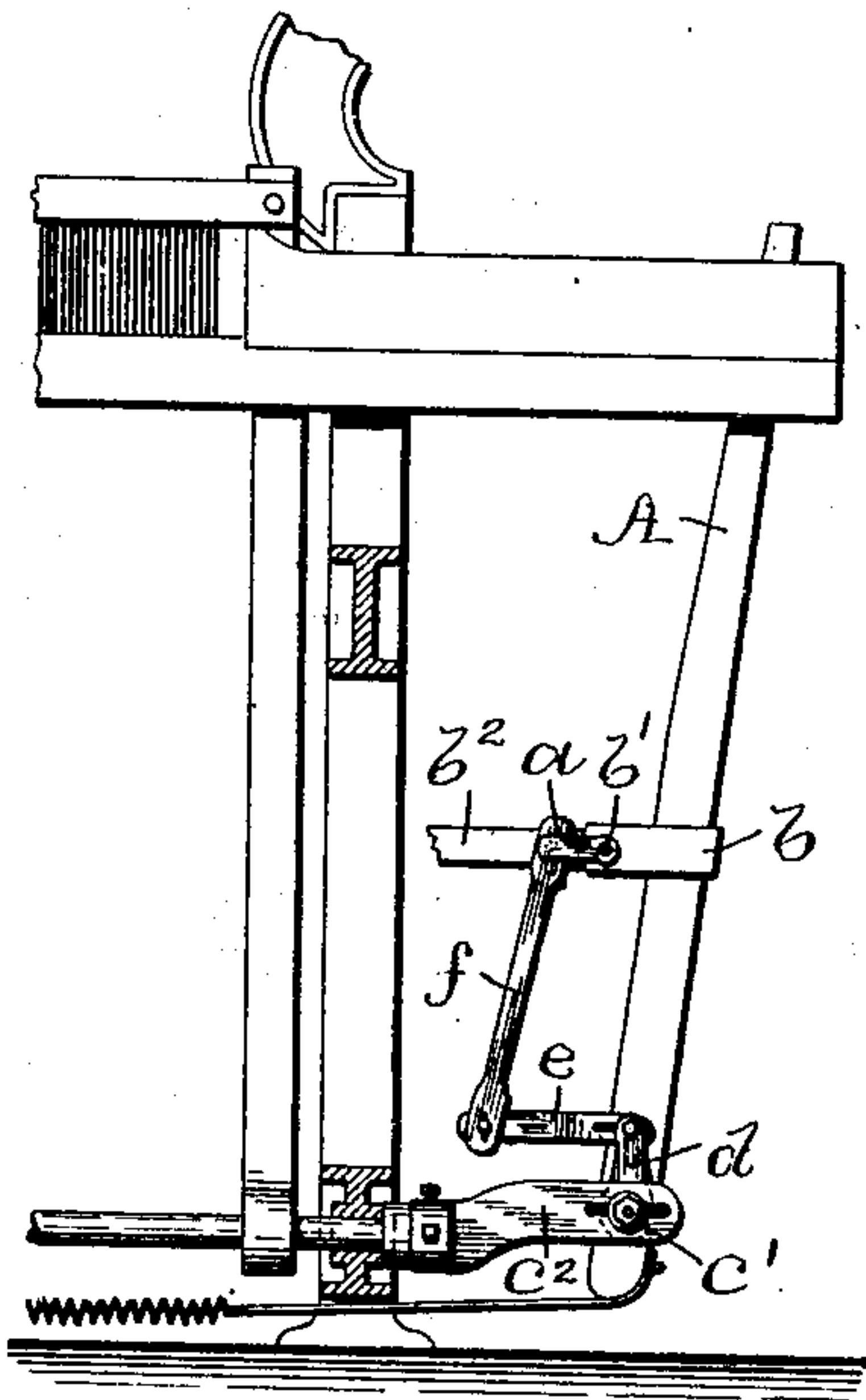


Fig. 2.

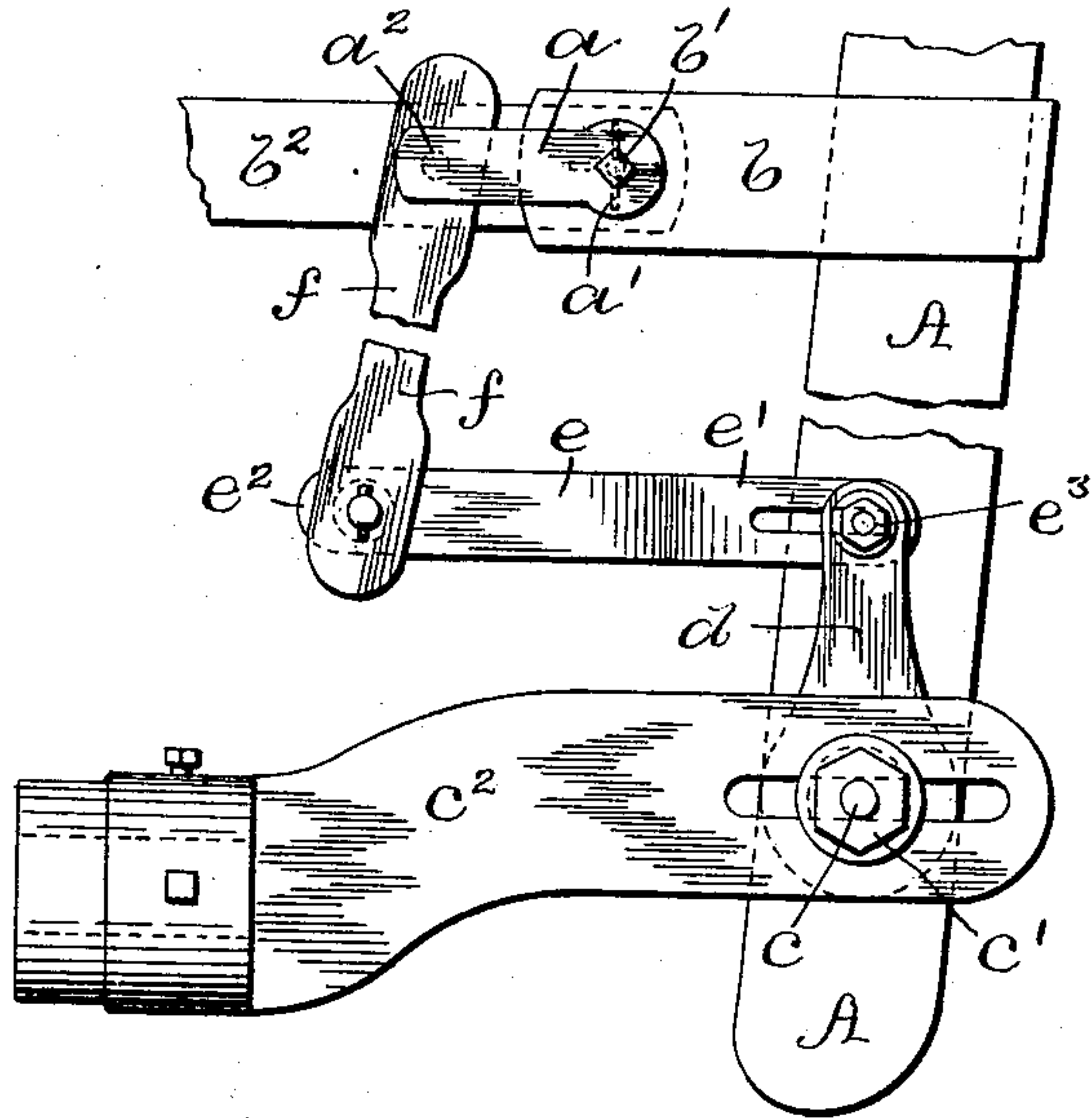


Fig. 4.

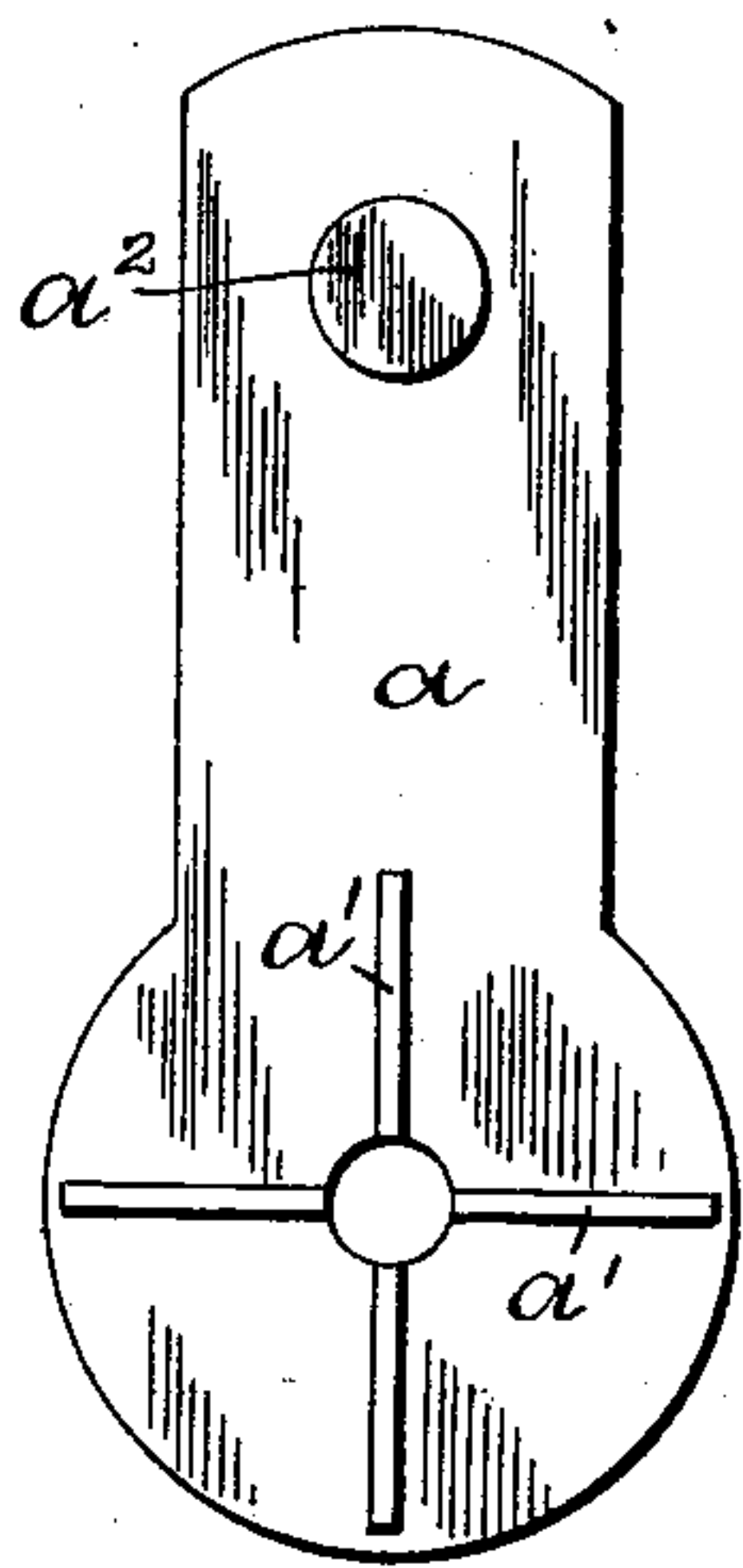


Fig. 3.

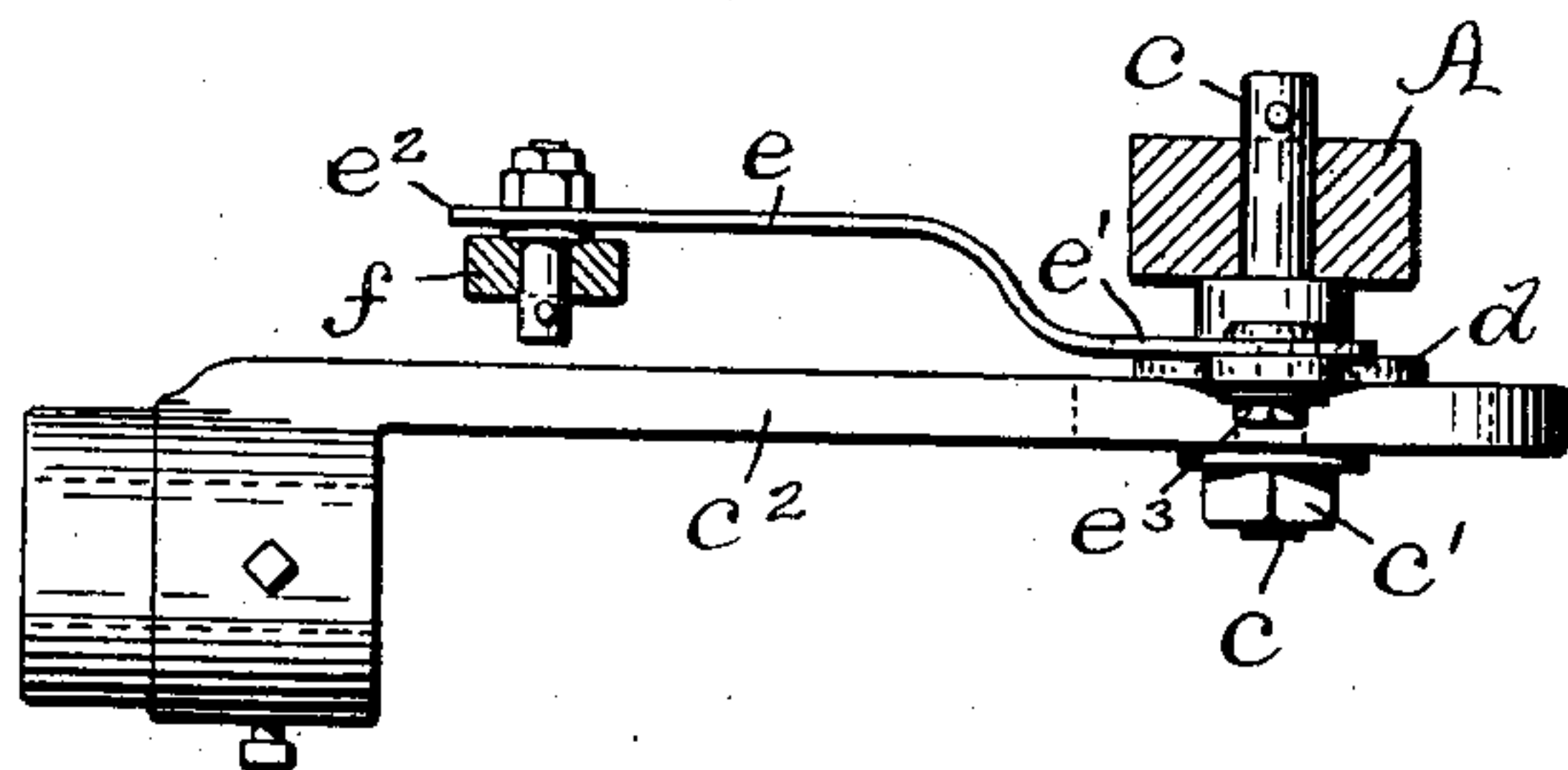
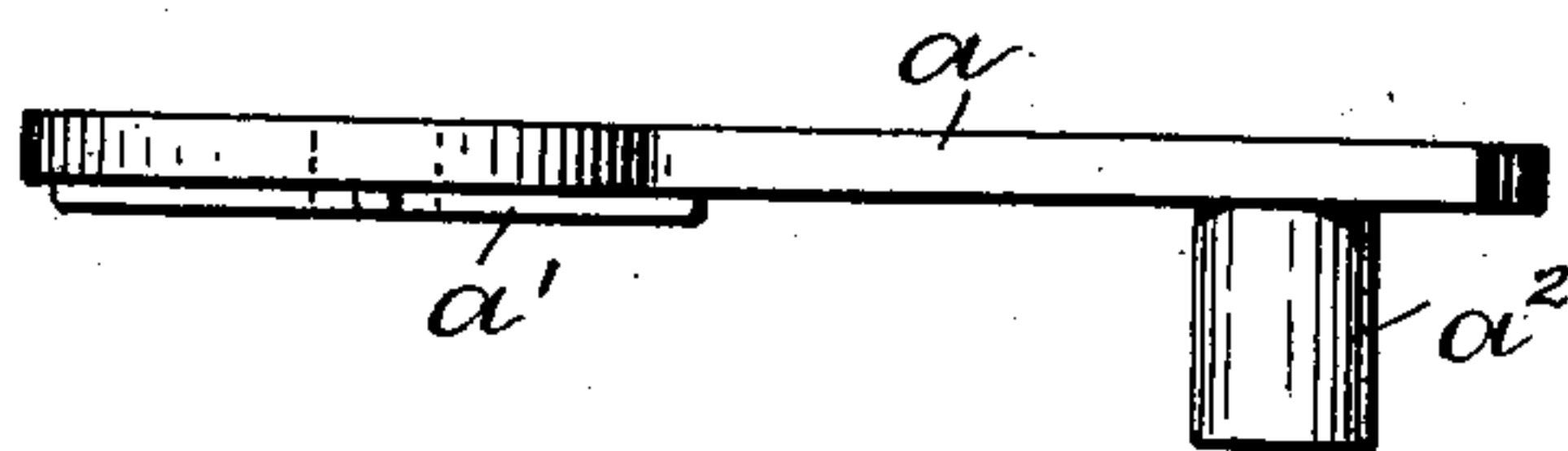


Fig. 5.



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PICKER MECHANISM FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 678,241, dated July 9, 1901.

Application filed October 3, 1900. Serial No. 31,836. (No model.)

To all whom it may concern:

Be it known that I, THOMAS GILSON, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Picker Mechanism for Looms, of which the following is a specification.

This invention has reference to an improvement in mechanism for adjustably supporting the sweep-straps on the picker-sticks of looms.

The invention consists in the peculiar and novel construction and the combination of the parts whereby the sweep-strap is adjustably supported on the picker-stick.

In a loom the picker-sticks by which the shuttle is thrown across the warp are operated through the picker mechanism by a rod called the "sweep," connected with the picker-stick by a loop, usually of leather, called the "sweep-loop." This loop requires to be adjusted vertically on the picker-stick when the weight of the cloth to be woven on the loom is changed.

The object of this invention is to provide an adjustable rocking support for the sweep-strap which can readily be secured to a loom by the use of wrench without altering any part of the loom.

Figure 1 is a front view of one end of a loom, showing my improved sweep-strap support in connection with the picker-stick. Fig. 2 is an enlarged view showing the parts of the sweep-strap support in their relative positions with the picker-stick support and the sweep-strap. Fig. 3 is a horizontal sectional view of the device. Fig. 4 is a view of the inner side of the arm secured to the sweep-strap, and Fig. 5 is an edge view of the same.

In the usual construction of looms the sweep-strap extends around the picker-stick A and is supported by a strap secured to the outer edge of the picker-stick above and below the sweep-strap. The ends of the sweep-strap are secured to the sweep by a bolt extending through the two ends of the strap and the hole in the sweep. A washer is placed

on each side of the strap between the strap and the head and the nut of the bolt.

In providing a loom with my improved device I remove one of the washers and replace it with the arm *a*, on the inner surface of which are the projecting ribs *a' a'*, which, when the arm is secured, press into the leather of the sweep-strap *b* and hold the arm against turning on the bolt *b'*. From the arm *a* the stud *a²* projects toward the sweep *b²*. I now unscrew the nut *c'* by which the picker-stick pin *c* is secured to the supporting-arm *c²* and place the bracket *d* against the supporting-arm *c²*, pass the screw on the picker-stick pin *c* through a hole in the bracket *d*, and secure the picker-stick pin by the nut *c'* and the bracket *d* between the base of the pin *c* and the arm *c²*. By slightly loosening the nut *c'* the bracket *d* can be adjusted by swinging the same on the picker-stick pin *c*. The link *e* is bent near the center to offset the end portions of the same. The end portion *e'* is slotted and is adjustably secured by a bolt *e³* and nut to the upper end of the bracket *d*. The link *e* may be swung on the bolt *e³* to raise or lower the end *e²*, as well as moved longitudinally, and then secured in the adjusted position to the bracket *d* by the bolt *e³*. A light, preferably wooden, connecting-rod *f* is pivotally connected with the end *e²* of the link *e* and with the stud *a²* on the arm *a*. By the use of this device the sweep-strap is supported on the picker-stick and may be raised or lowered to any position required.

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

1. A sweep-strap support for a loom, consisting of a bracket *d* supported on the pivot of the picker-stick, a link *e* adjustably supported on the bracket *d*, a connecting-rod *f* pivoted to the link *e* and to the arm *a*, and the arm *a* secured to the sweep-strap *b* and provided with the stud *a²* and projecting ribs *a' a'*, whereby the position of the sweep-strap may be varied without altering the adjustment of the picker-stick, as described.

2. In a sweep-strap support, a sweep-strap,

an arm supported by the sweep-strap having
a hole for the insertion of the sweep-strap
bolt, projecting ribs on the arm extending
radially from the hole, a stud formed on the
5 arm, a connecting-rod pivotally supported on
the arm by the stud, and a link secured to
the connecting-rod at one end and adjustably
supported on a bracket at the opposite end;

whereby the position of the sweep-strap may
be varied and the sweep-strap supported 10
without altering the adjustment of the picker-
stick, as described.

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