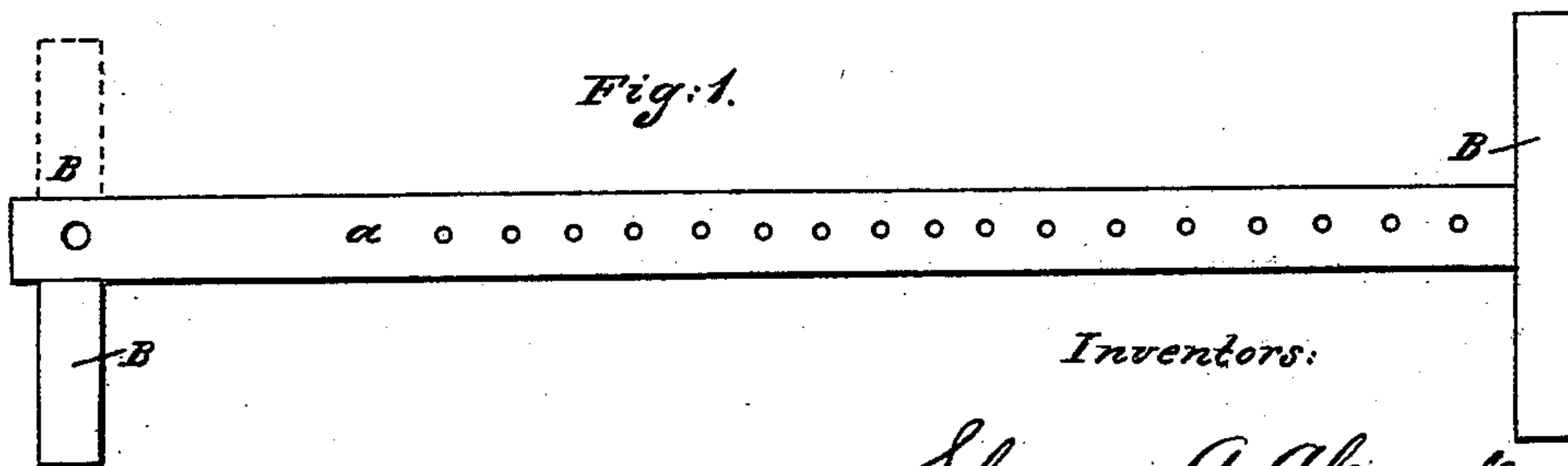
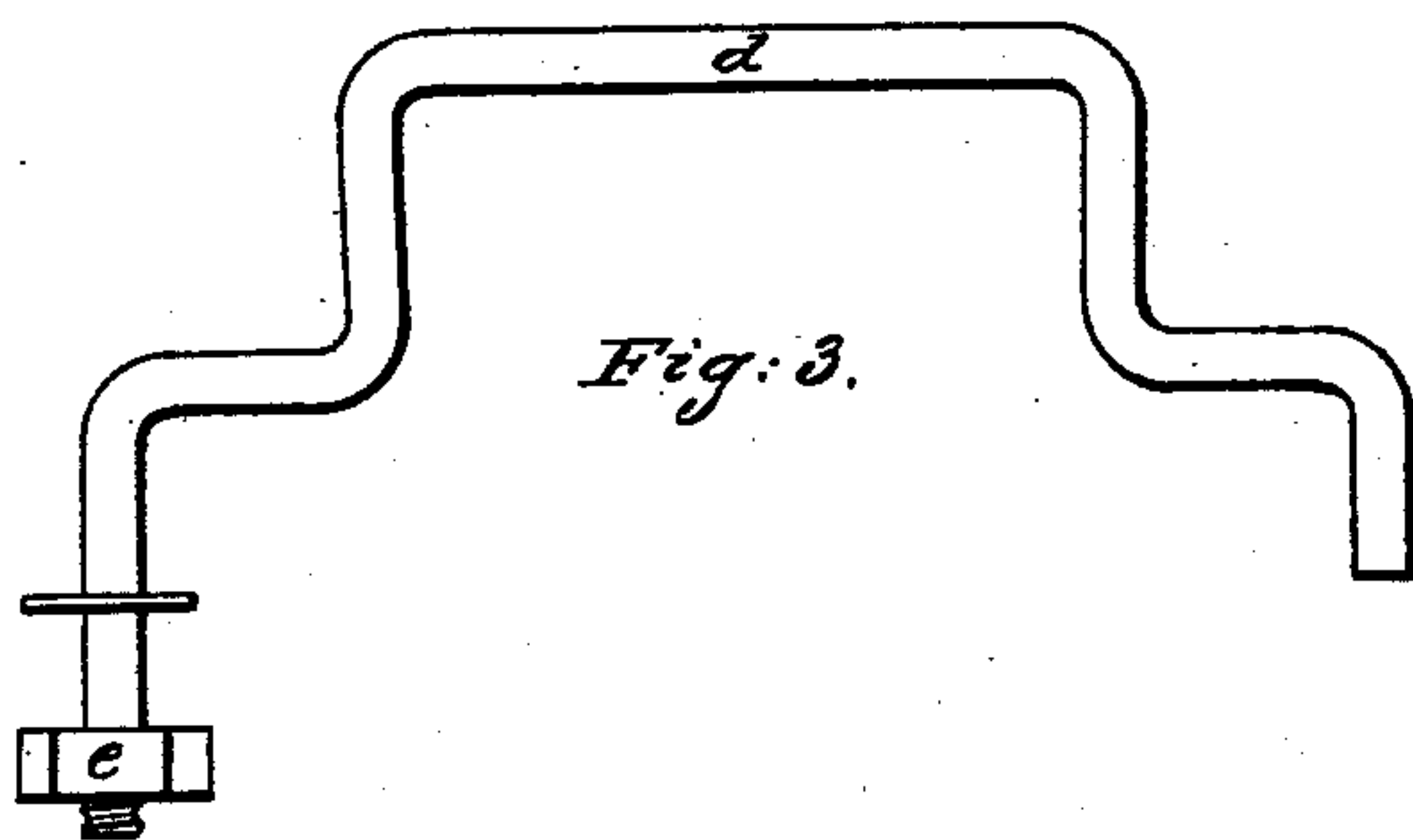
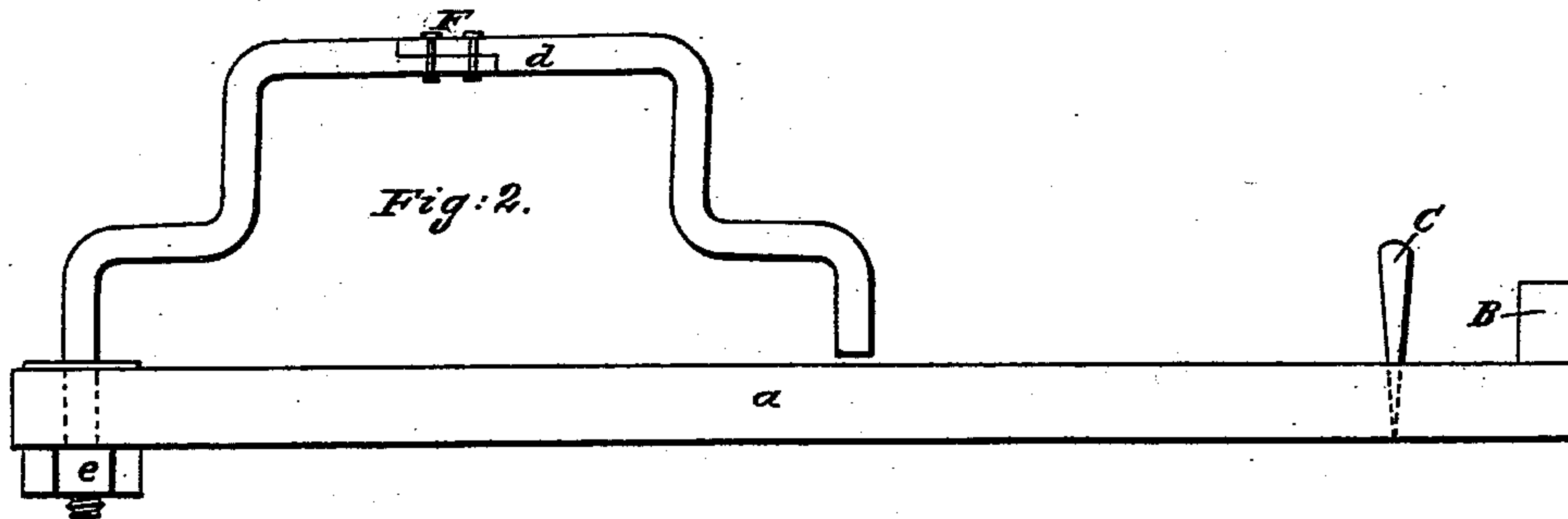


ALEXANDER & DUNN.

Rest for Locomotive Cross Heads.

No. 94,171.

Patented Aug. 31, 1869.



Inventors:

Salomon A. Alexander.
Edward Dunn.

Witnesses:

A. Schuiff.
L. Harrison

United States Patent Office.

SOLOMON A. ALEXANDER AND EDWARD DUNN, OF SUNBURY,
PENNSYLVANIA.

Letters Patent No. 94,171, dated August 31, 1869.

IMPROVEMENT IN REST FOR LOCOMOTIVE CROSS-HEADS.

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

To whom it may concern:

Be it known that we, SOLOMON A. ALEXANDER and EDWARD DUNN, machinists, of Sunbury, county of Northumberland, and State of Pennsylvania, have invented a new and useful Machine for the Purpose of Moving Cross-Heads on Locomotive and other Engines, and which we term a "Self-Sustaining Rest for Moving Cross-Heads;" and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a plan,

Figure 2, an elevation, and

Figure 3 is a detached elevation of a part of the machine.

Fig. 1. *a* is a rest, that may be either perforated or notched. It can be either square, round, half-round, oval, or polygonal, with T or L-shaped ends, as shown at B B.

Fig. 2. *a* is the rest.

B, the T or L-shaped end.

c, adjustable pin.

d, an adjustable and reversible bridle, for attaching the rest to the engine on which the work is to be done.

e, a pin, key, or nut, for securing the bridle to the rest.

Fig. 3, an elevation of the bridle in detail, adjustable at F, as shown in fig. 2.

In using the machine, the T or L-end of the rest is inserted between the guides of the engine on which the work is to be done. The bridle is placed over the guides. Then, by placing the pin *c* in any hole in the rest that is most convenient, the cross-head is moved by a lever, the pin being the fulcrum.

Claims.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The rest itself, with either T or L-ends, perforated for an adjustable pin, or a series of stationary pins, as shown in accompanying drawings, and described in accompanying specification, or with notches, or teeth placed at intervals, to supply the place of said pin or pins on the "rest."

2. In combination with the "rest," the adjustable bridle, for the purpose of attaching the rest to the engine, (on which the machine is to be used,) substantially as described.

3. The bar, as herein described, for the purpose of moving cross-heads, or any portion of the rest, as described.

SOLOMON A. ALEXANDER.
EDWARD DUNN.

Witnesses:

H. L. JONES,
L. HARRISON.