

(No Model.)

2 Sheets—Sheet 1.

O. A. BUSARD.
FOOT POWER HAMMER.

No. 437,972.

Patented Oct. 7, 1890.

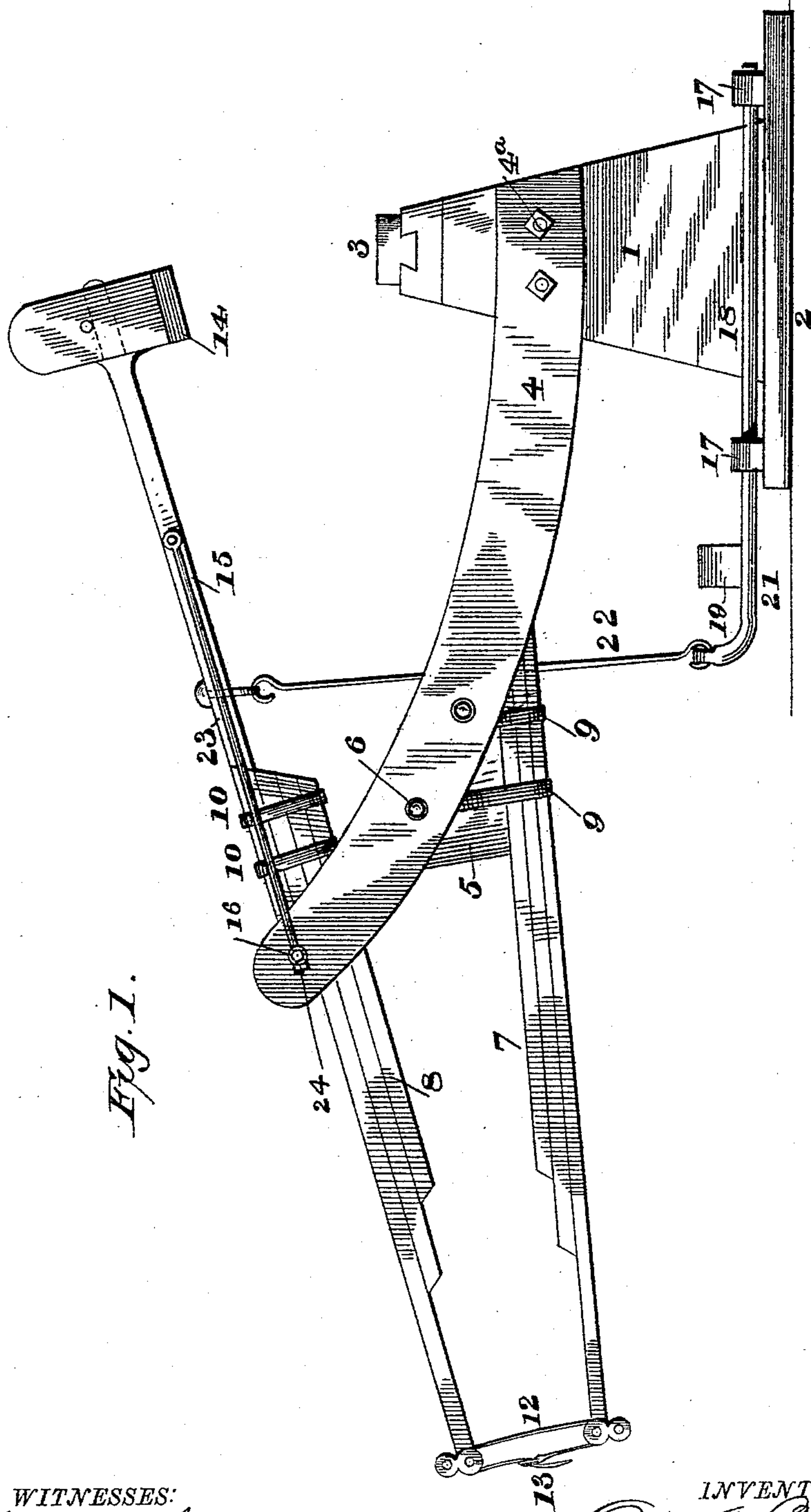


Fig. 1.

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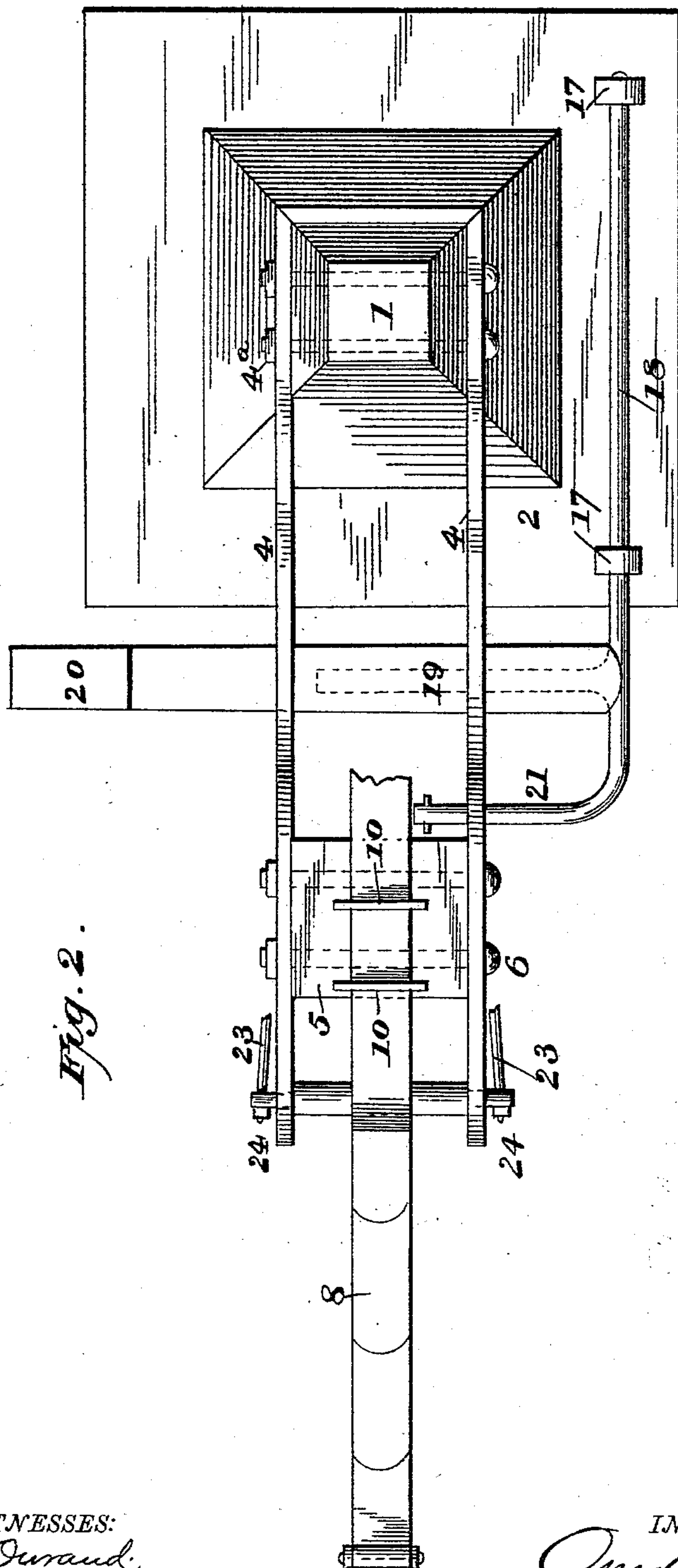
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2 Sheets—Sheet 2.

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WITNESSES:
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INVENTOR:
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UNITED STATES PATENT OFFICE.

OSEE A. BUSARD, OF MARION, OHIO.

FOOT-POWER HAMMER.

SPECIFICATION forming part of Letters Patent No. 437,972, dated October 7, 1890.

Application filed June 13, 1890. Serial No. 355,290. (No model.)

To all whom it may concern:

Be it known that I, OSEE A. BUSARD, a citizen of the United States, and a resident of Marion, in the county of Marion and State of Ohio, have invented certain new and useful Improvements in Foot-Power Hammers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to improvements in foot-power hammers, the object being the production of a simple, economical, and effective device which will perform the work required of it in a very effective manner.

In the accompanying drawings, Figure 1 is a side elevation of a foot-power hammer constructed in accordance with my invention. Fig. 2 is a plan view of the same, the hammer and the spring being removed.

In said drawings the reference-numeral 1 designates the anvil supported upon the base 2, which may be made integral therewith or separated therefrom, as may be found most desirable.

3 is the anvil face or block. Secured to the anvil at each side, by means of bolts 4^a passing therethrough, are the curved arms 4, which support and carry the working parts of the device. Interposed between these arms, near their free ends, is a wooden block 5, secured by means of bolts 6.

The numeral 7 designates the lower spring, and 8 the upper spring. These springs consist of metal plates, and are what are known as "leaf-springs." The lower spring is secured to the block 5 by means of clips 9, and is connected to the upper spring by means of the clips 10 and leather strap 12, having buckle 13.

14 denotes the hammer-head, and 15 the rod connecting said head with the upper spring.

16 is a bar connecting the free ends of the arms 4. Pivoted in lugs 17, secured to the anvil-base, is a bar 18, connected with treadle 19, having a wooden cushion 20. This bar is

extended outwardly and then transversely, forming an arm 21, which is connected with the hammer-rod by means of the rod 22.

23 designates stay or brace rods connected at one end with the hammer-rod and at the other end to the ends of bar 16, their ends being screw-threaded and provided with nuts 24 for the purpose of tightening the same.

The operation will readily be understood. In its normal condition the hammer-head is elevated by the tension of the springs 7 and 8. When it is desired to operate the hammer, the operator depresses the treadle with his foot, which, being connected with the hammer-rod by means of the connecting bar or rod 22, carries the hammer-head to be depressed with great force upon the article placed upon the anvil-block. As the pressure on the treadle is relieved the hammer-head will be elevated by the springs.

The advantages of the above construction will be apparent to those skilled in the art to which the invention pertains.

Having thus described my invention, what I claim is—

1. The combination, with the anvil, of the supporting-arms secured thereto, the upper and lower springs connected together at one end, the upper spring carrying the hammer-head and the lower spring secured to the supporting-arms, the pivoted bar connected with the anvil and having a treadle and an outwardly-extending arm, and a connecting-rod secured thereto and to the hammer-rod, substantially as described.

2. The combination, with the anvil 1, of the supporting-arms 4, secured thereto, the springs 7 and 8, connected together by clips 10 and strap 12, the block 5, to which spring 7 is secured, the hammer-rod 15 and head 14, the bar 18, pivoted to the anvil-base, the treadle 19, having wooden cushion 20, the arm 21, and connecting-rod 22, substantially as described.

3. In a foot-power press, the combination, with the anvil, the hammer, and connections, of the treadle provided with a wooden cushion, substantially as described.

4. In a foot-power press, the combination,
with the anvil, the treadle, the hammer, and
connections, of the springs connected together
by a flexible strap, the lower block being se-
5 cured to a wooden block, which forms a cush-
ion for preventing vibration, substantially as
described.

In testimony that I claim the foregoing as
my own I have hereunto affixed my signature
in presence of two witnesses.

OSEE A. BUSARD.

Witnesses:

W. J. BYERS,

HENRY W. KELLER.