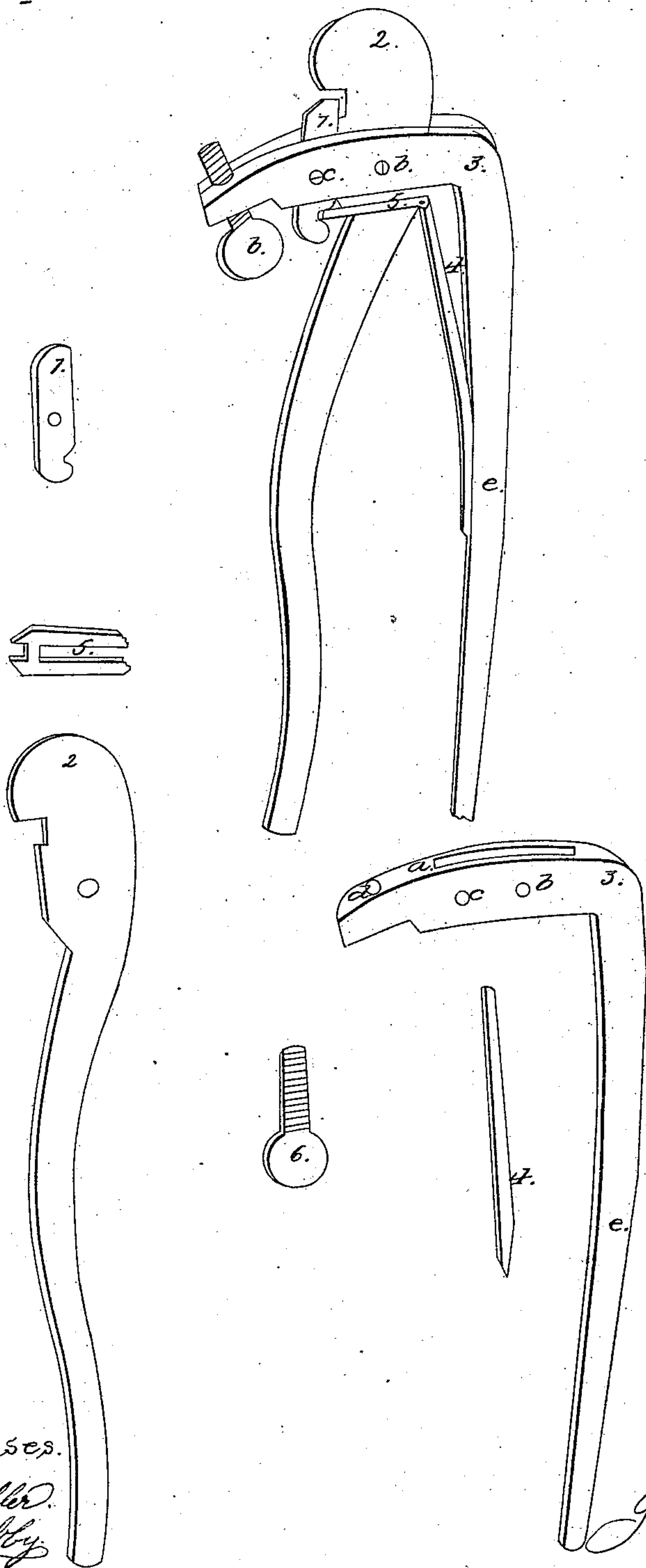


J. F. Broadhead,

Saw-Set,

N^o 10,587.

Patented Feb. 28, 1854.



Witnesses.

John Handler.
John B. Galley.

Inventor

J. F. Broadhead.

UNITED STATES PATENT OFFICE.

JAMES F. BRODHEAD, OF RONDOUT, NEW YORK, ASSIGNOR TO THOMAS RITCH, OF
NAPANOCK, NEW YORK.

FORCEP SAW-SET.

Specification of Letters Patent No. 10,587, dated February 28, 1854.

To all whom it may concern:

Be it known that I, JAMES F. BRODHEAD, of Rondout, Ulster county, and State of New York, have invented a new and useful Instrument for Setting Saws; and I 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 movable bed, or anvil, 2 and 3 levers and handles, 4 springs, 5 crotchet, 6 gage screw, letter *a*, slot, *b* and *c* center pins, *d* place for gage screw, *e* place where spring is attached.

Through slot *a*, in handle and lever 3, passes lever and handle 2, and is confined to its place by center pin *b*, which acts as a fulcrum to lever 2. Through the same slot *a*, passes the movable bed or anvil 1, which is confined to its place by center pin *c*, which acts as a fulcrum to the movable bed or anvil. The spring 4 is attached to handle 3, at *e*, the crotchet 5, rests on the movable bed or anvil and is kept to its place by spring 4. Through the hole *d*, in lever 3, passes gage screw 6.

The operation of the above described forceps saw set is as follows: After adjusting the gage screw for the purpose of giving the amount of set desired, apply the instrument by holding the plate of the saw firmly against the gage screw, allowing the tooth to

enter the opening between the ends of the movable bed or anvil and lever 2, the base 35 of the tooth resting on the movable bed or anvil, which acts as a fulcrum to the tooth. Then pressing the handles together lever 3, is thrown forward holding the bed or anvil firmly in its place, at the same time lever 2 40 is brought back, catching the point of the tooth and conjointly gives the tooth the desired amount of set. The spring upon the removal of pressure causes the instrument to open, at the same time presses the 45 crotchet against the ends of the bed or anvil causing the same to retain its position relative to lever two.

The principle of this saw set is, that the set is given from the point and not from 50 the base, as is the case in other forceps sets, and also that it will produce an evenness of set not only on plates of an even surface, but also on plates of an uneven surface.

What I claim as my invention, and desire to secure by Letters Patent, in the forceps saw set is—

The movable bed or anvil operating conjointly with the levers, enabling the operator to set the tooth of the saw from its 60 point, instead of from its base, as is usual in other forceps sets as herein set forth.

J. F. BRODHEAD.

Witnesses:

JOHANNIS D. HASBROUCK,
W. G. RITCH.