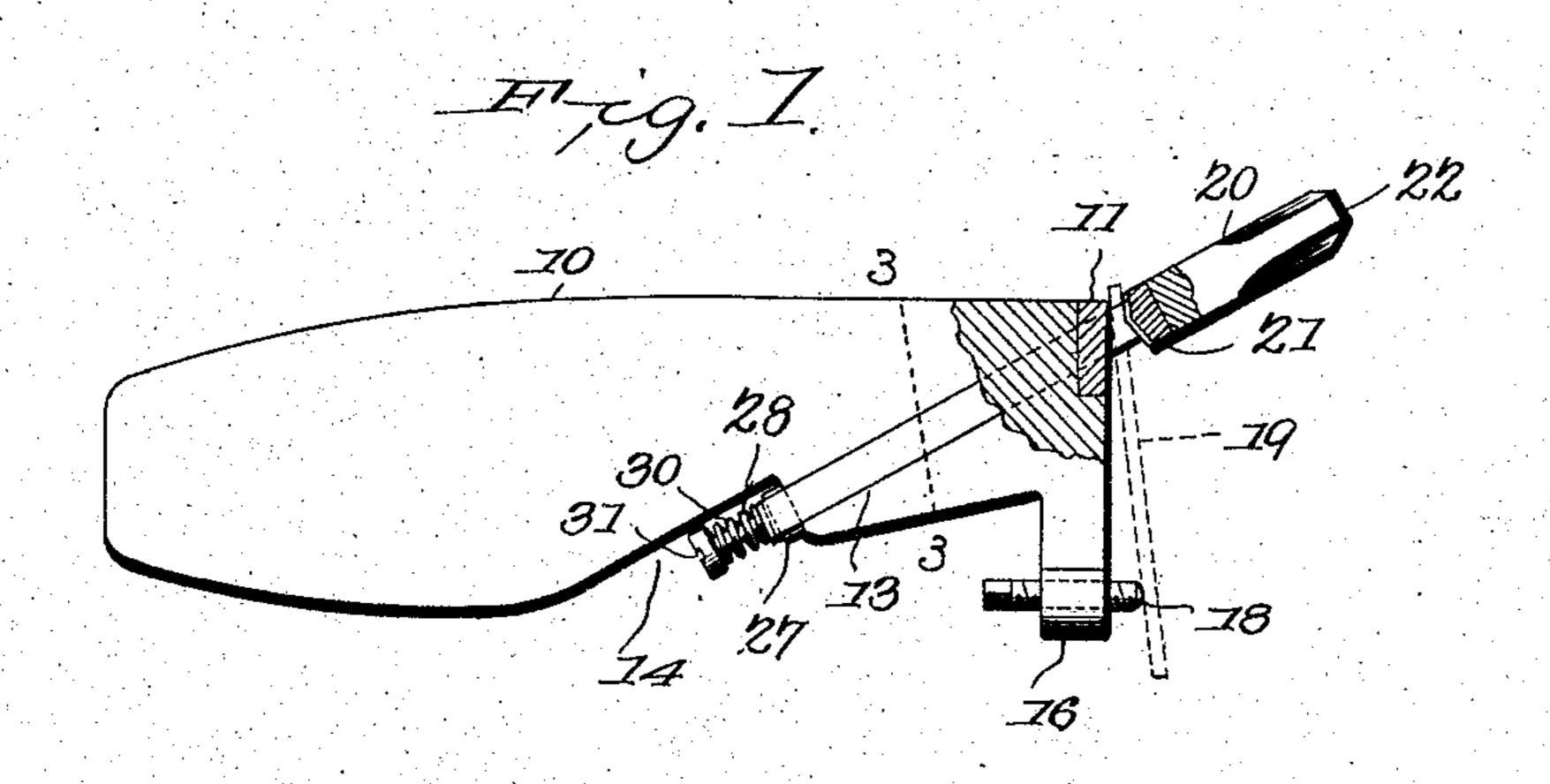
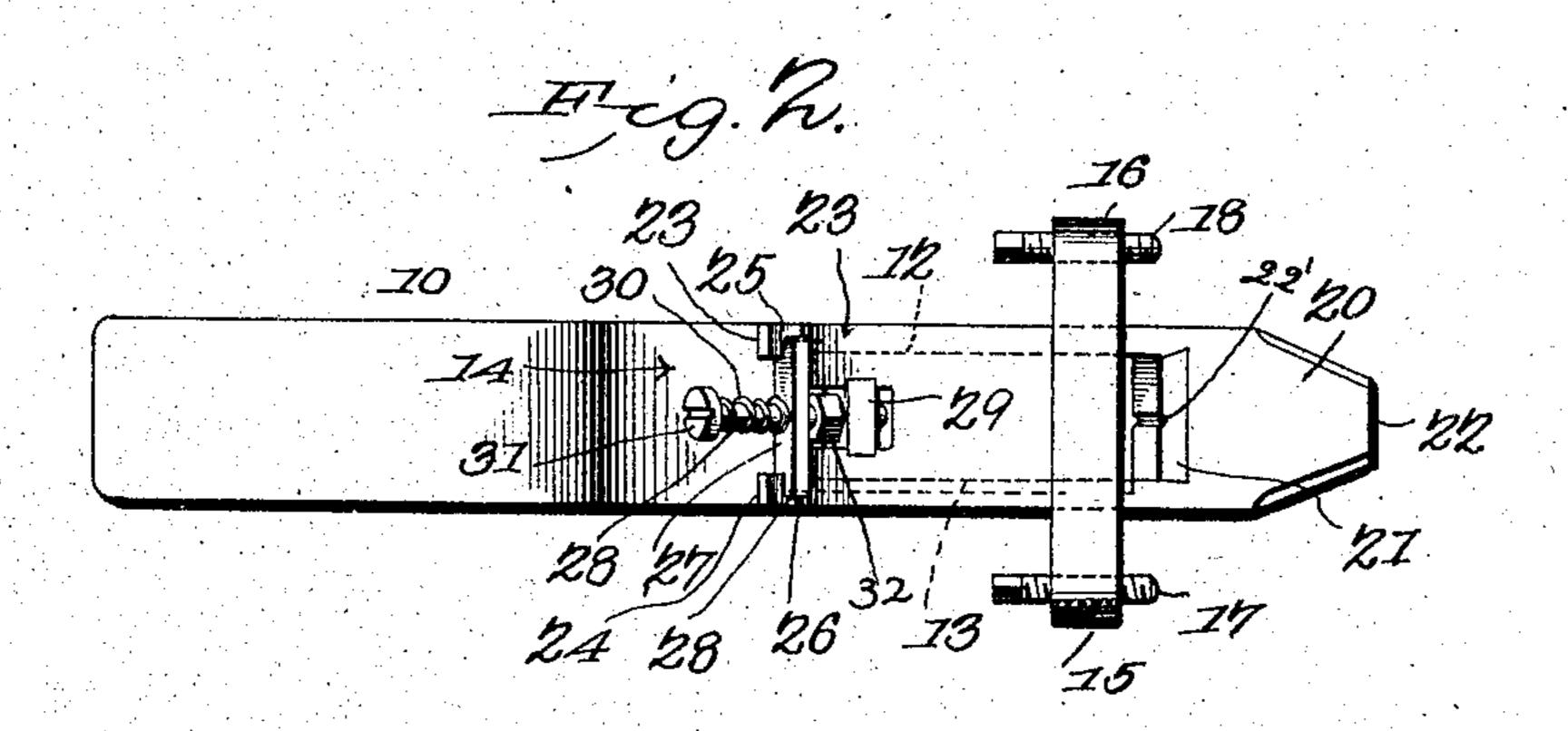
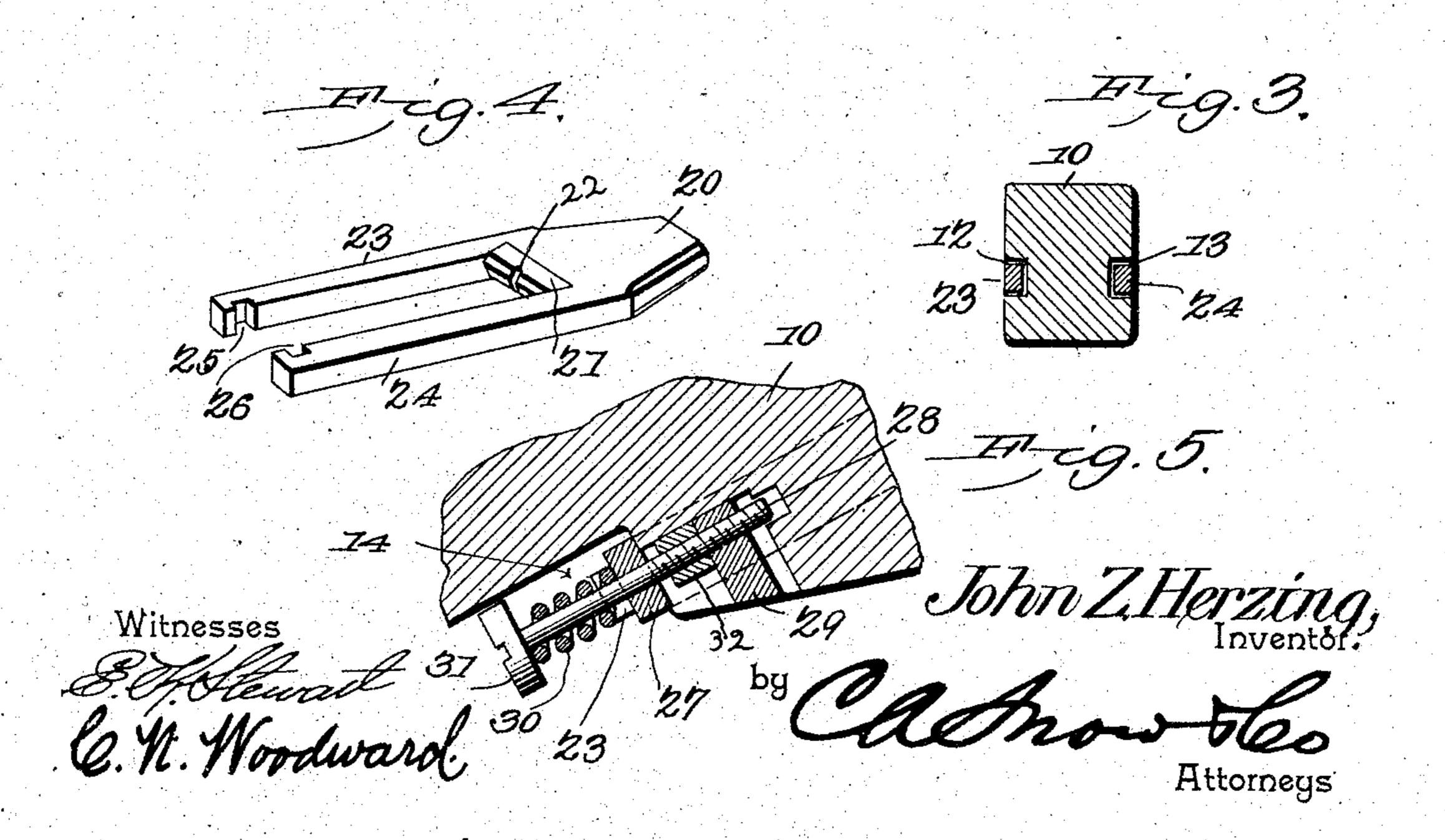
J. Z. HERZING. SAW SET. APPLICATION FILED MAY 17, 1904.







United States Patent Office.

JOHN Z. HERZING, OF ST. MARYS, PENNSYLVANIA.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 781,205, dated January 31, 1905.

Application filed May 17, 1904. Serial No. 208,455.

To all whom it may concern:

Be it known that I, John Z. Herzing, a citizen of the United States, residing at St. Marys, in the county of Elk and State of Pennsylvania, have invented a new and useful Saw-Set, of which the following is a specification.

This invention relates to saw-sets, and has for its object to simplify and improve the construction and produce an implement of this character of increased efficiency, durability, and effectiveness, while at the same time reducing the expense of construction.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter

fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corre-20 sponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not 25 necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages, and the 3° right is therefore reserved of making all the changes and modifications which fairly fall within the scope of the invention and the claims made therefor.

In the drawings thus employed, Figure 1 is a side elevation, partly in section, illustrating a saw-set constructed in accordance with the invention. Fig. 2 is a bottom plan view of the same. Fig. 3 is a transverse section of the saw-set on the line 3 3 of Fig. 1. Fig. 4 is a perspective view of the movable setting-jaw detached. Fig. 5 is an enlarged sectional detail of the setting-jaw-return-spring-adjusting device.

The improved implement comprises a stock 45 10 of relatively large size to provide the requisite weight to resist the blows imparted to the setting member and provided at one end with an anvil 11 of hardened steel. The

stock is also provided with spaced guideways or channels 12 13, disposed at an angle to the 50 plane of the face of the anvil and terminating in a cavity 14 in the under side of the stock.

Extending from the stock 10 are lateral portions 15 16, having adjusting-screws 17 18, operating therethrough for bearing against 55 the saw (represented at 19) to regulate the angle of the "set" imparted to the teeth, as hereinafter explained.

The setting-jaw 20 is provided at one end with an anvil 21, having an angular face and 60 a peen or blow receiving portion 22 at the other end and having integral spaced guide members 23 24 for engaging the inclined guideways 12 13 in the stock. By this arrangement it will be noted that the movable anvil 65 21 is disposed and operates at an angle to the stationary anvil 11 and imparts to the sawtooth a blow at an angle to the same, thereby producing the required degree of set.

The angular form of the face of the mov- 70 able member 21 is an important feature in the operation, as by this means the impact upon the saw-tooth is imparted at a sufficient distance from its point to insure the requisite set and prevent the tooth from simply pound- 75 ing flat, as will be obvious. The anvil is further provided with a centrally-disposed notch 22' to receive the central portion of the tooth in order to prevent flattening of the same. Near their inner ends the guide members 23 24 are 80 provided with transverse recesses 25 26, in which a strip 27 is supported by its ends, the strip having a transverse aperture to receive a bolt 28, the threaded end of the bolt engaging a threaded aperture in a cross-bar 29, in- 85 serted into the stock 10.

A spring 30 is disposed upon the bolt 28 between the plate 29 and the head 31 of the bolt and exerting its force to maintain the setting-jaw yieldably in its projected position. 90

A lock-nut 32 is arranged upon the bolt 28 and bears upon the inner side of the plate 29 to prevent the bolt working loose.

It will thus be obvious that a very simplyconstructed and efficient saw-set is provided 95 by means of which the teeth of the saw may have imparted thereto an inclination of any desired degree and without danger of injury to the saw. All the teeth may thus be inclined to exactly the same extent, and a regular and uniform action be thereby obtained.

Having thus described the invention, what

I claim is—

1. In a saw-set, a stock having a stationary anvil member and provided with obliquely-disposed guideways, a setting-jaw having its operating-face parallel with the anvil-face, setting-jaw carriers adapted to the guideways, and adjustable means for supporting the saw at an angle to the two operating-faces.

2. The combination with a stock having a stationary anvil and provided with obliquely-disposed guideways, a pair of bars arranged in said guideways, a perforated strip connecting the bars, a screw extending through the strip, a spring disposed between the head of the screw and the strip, a setting-jaw carried by the bars and arranged for coöperation with

the anvil, and means for supporting the saw at an angle to the anvil and setting-jaw.

3. The combination with a stock having a 25 pair of obliquely-disposed guideways, of an anvil carried by the stock, a setting-jaw, a pair of bars arranged in the guideways and carrying said setting-jaw, a cross-strip connecting the bars and provided with an open-30 ing intermediate of its length, an adjusting-screw extending through said opening, a cross-bar adapted to receive said set-screw, a lock-nut for the screw, and a spring arranged between the head of the screw and the strip and 35 serving to restore the setting-jaw to initial position after each operation.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in

the presence of two witnesses.

JOHN Z. HERZING.

Witnesses:

FRANCIS A. HAUHR, BEATRIX M. LOWN.