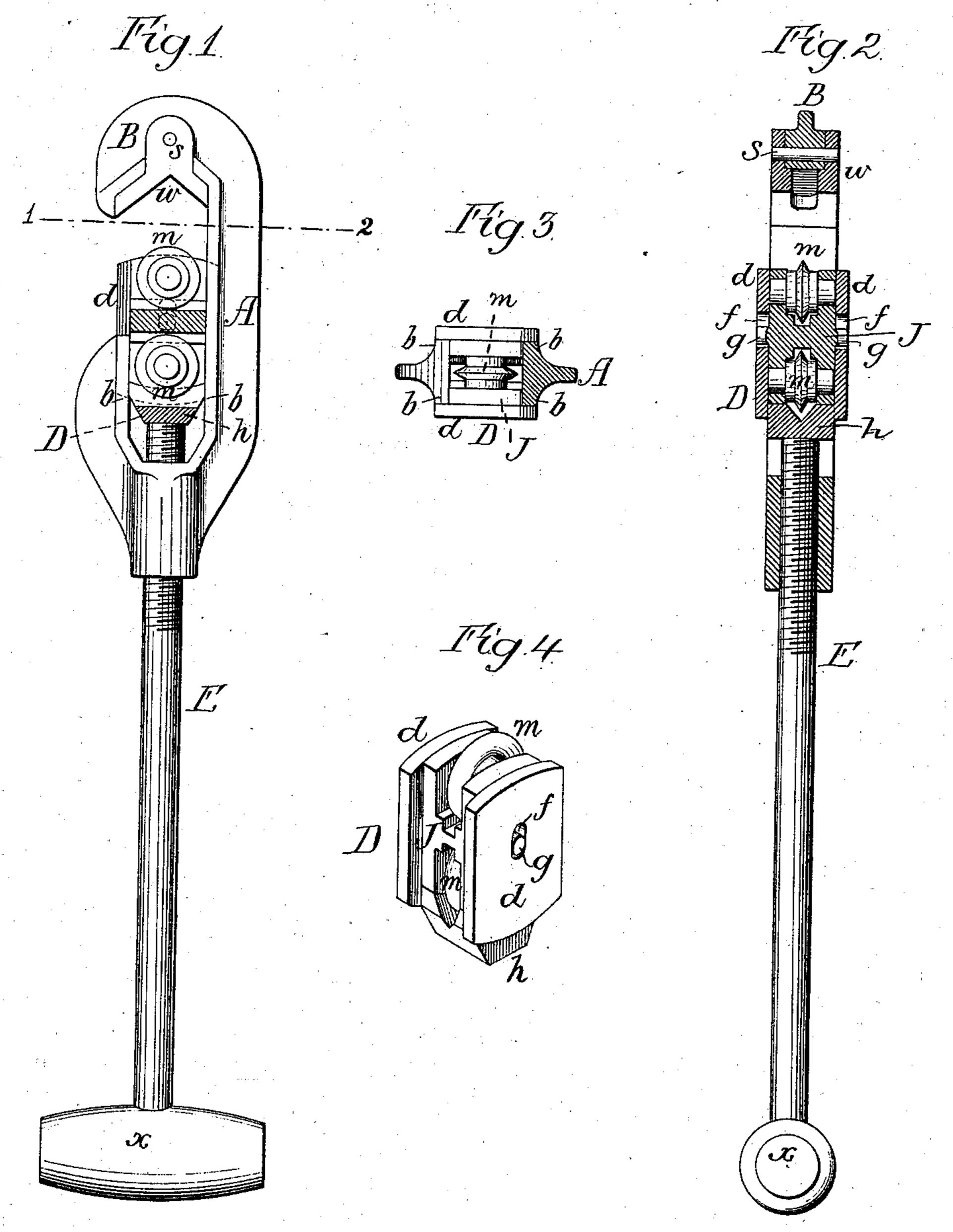
F. I. MAULE. Rod and Pipe Cutter.

No. 225,403.

Patented Mar. 9, 1880.



Mitnesses Henry Howamp -Harry Smith Francis I. Maule byhis attorneys Horvion and le

## United States Patent Office.

FRANCIS I. MAULE, OF PHILADELPHIA, PENNSYLVANIA.

## ROD AND PIPE CUTTER.

SPECIFICATION forming part of Letters Patent No. 225,403, dated March 9, 1880. Application filed January 29, 1880.

To all whom it may concern:

Be it known that I, Francis I. Maule, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented an Im-5 provement in Rod or Pipe Cutting Implements, of which the following is a specification.

The object of my invention is to so provide a rod or pipe cutting tool with a number of rotary cutters that in the event of one of said 10 cutters becoming blunt by long-continued use another cutter may be readily brought into operative position.

My invention consists of certain combinations of parts for the attainment of this ob-15 ject, the combinations being too fully explained hereinafter to need preliminary description.

In the accompanying drawings, Figure 1 is a side view, partly in section, of a rod or pipe 20 cutting tool with my improvement; Fig. 2, a transverse section of the same; Fig. 3, a sectional plan on the line 12, Fig. 1; and Fig. 4, a perspective view of part of the implement.

The body or frame A of the tool is hooked 25 at its outer end to form the fixed jaw B, and the frame is recessed near its opposite end to form guides b b for the slide D, the adjustment of which toward the jaw B is effected by means of the threaded shank E, the latter be-30 ing provided at its outer end with a suitable handle, x.

The slide D comprises a base, h, against which the end of the threaded shank bears, and the cheek-pieces dd, which are so adapted 35 to the guides of the frame, Fig. 3, that the slide can have no lateral movement therein. A block, J, fits snugly between the said cheekpieces and bears on the base h of the slide, and from the opposite sides of the block pro-40 ject pins g through slots f in the said cheekpieces, Fig. 4.

The pins on the block prevent its detachment from the slide when the tool is not in use, the slots being of such dimensions that when 45 the block bears on the base h the pins are free from contact with the ends of the slots, and therefore cannot be subjected to strains when the tool is being used. When the block is moved outward from the base h to the limit 50 permitted by the slots the said block can be turned in the slide.

The block J is slotted at each end for receiving the rotary cutters m m, the journals of which have their bearings in the block at such |

points that the cutting-edge of one cutter shall 55 project beyond one end and that of the other cutter beyond the opposite end of the said block, so that when the edge of one cutter has become blunt by long-continued use the slide may be withdrawn from its guides in the 60 frame, after which the block J can be moved outward from the slide so far as to clear the base-piece h, and then turned on its pins to the extent of half a revolution, when the sharp cutter will be presented in a proper position 65 for active duty.

A detachable block, w, is fitted to the fixed jaw B of the frame, and is connected thereto by a pin, s, the smooth hardened face of the block bearing against one side of the pipe or 70 rod to be cut, and moving freely on the same while the tool is turned and while one of the rotary cutters acts on the opposite side of the

pipe or rod.

Although I have shown in the drawings a 75 slide, J, carrying two rotary cutters, and although this number will be generally used in practice, more than two cutters may be combined with the block, if desired.

I am aware that a slide sharpened at both 80 ends has been so combined with the jaw of a pipe-cutter that it could be detached and reversed, and I therefore do not claim, broadly, the combination of a reversible cutter with the jaw of the tool; but

I claim as my invention—

1. The combination of the frame of a pipe or rod cutting tool having a fixed jaw and a slide with a reversible block carrying two or more rotary cutters, substantially as set forth.

2. The combination of the frame of the tool with a slide, D, having a base, h, and the reversible block J, carrying rotary cutters m, and adapted to the said slide, so as to bear on the base h when in use, all substantially as 95 described.

3. The combination of the slide D, having slotted cheek-pieces d d and base h, with the cutter-carrying block J, having pins adapted to said slots, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANCIS I. MAULE.

Witnesses:

ALEXANDER PATTERSON, HARRY SMITH.