

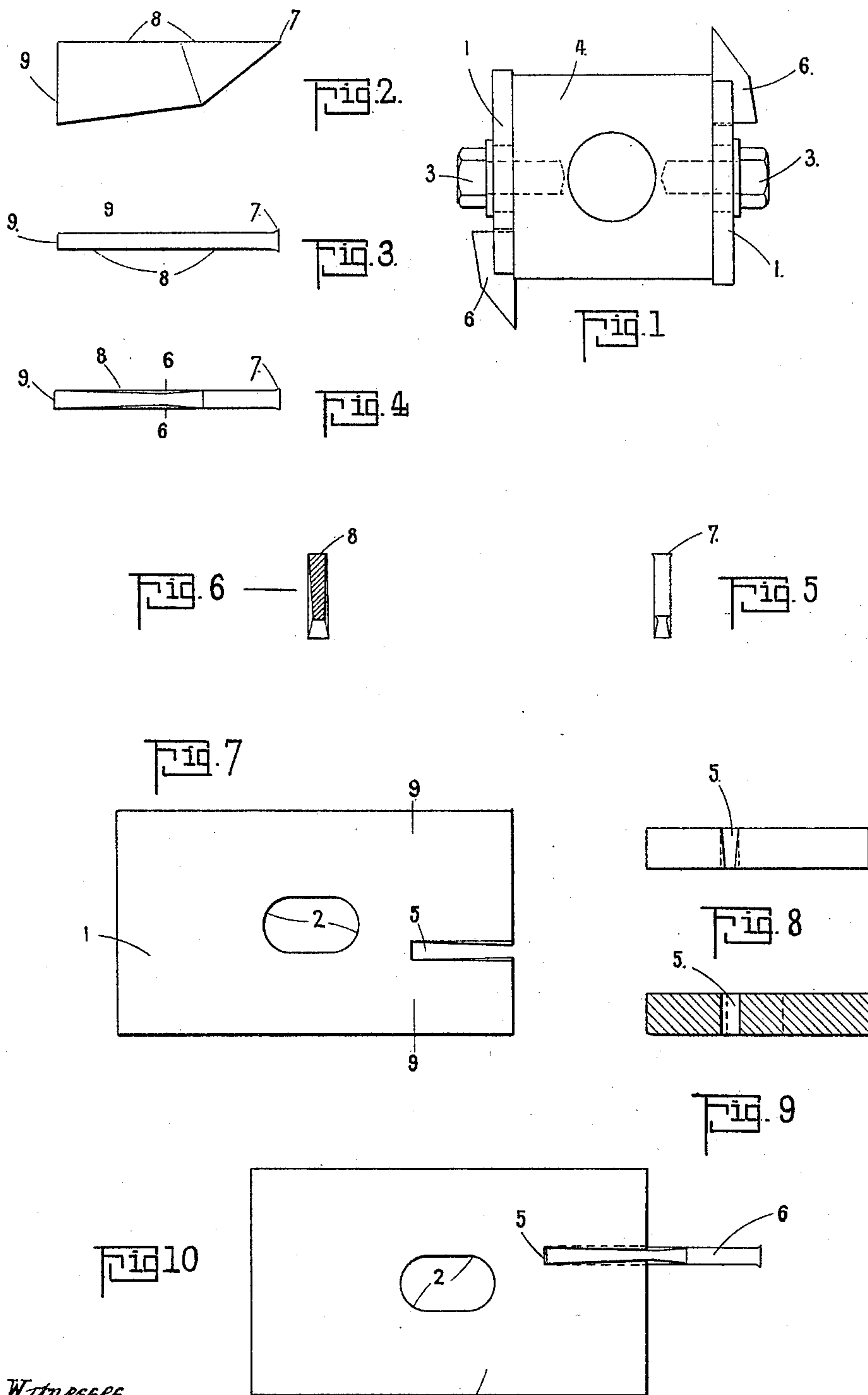
No. 706,264.

Patented Aug. 5, 1902.

E. H. SLATER.
CUTTING TOOL FOR PLANING MACHINES.

(Application filed Mar. 18, 1902.)

(No Model.)



Witnesses.

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UNITED STATES PATENT OFFICE.

EBENEZER HENRY SLATER, OF AUCKLAND, NEW ZEALAND.

CUTTING-TOOL FOR PLANING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 706,264, dated August 5, 1902.

Application filed March 18, 1902. Serial No. 98,859. (No model.)

To all whom it may concern:

Be it known that I, EBENEZER HENRY SLATER, a subject of His Majesty the King of Great Britain and Ireland, residing at Auckland, in the Colony of New Zealand, have invented Improvements in Cutting-Tools for Planing-Machines, of which the following is a specification.

This invention provides an improved cutter-tool for use upon planing-machines for tonguing, grooving, and the like.

Plane-irons are usually formed in one piece; but according to my invention they are made in two parts—viz., a holder which is bolted to the cutter-block and a cutter or knife shaped to suit the work to be done and secured in the holder. The holder has an oblong slot to receive the stud-bolt by which it is secured to the cutter-block of the machine and also a slot through one end, into which the cutter is dovetailed, the cutter being held securely in position when the holder is bolted against the side of the cutter-block.

In the accompanying drawings, Figure 1 is an end elevation of a cutter-block; Fig. 2, a side elevation of a groove-cutting tool; Figs. 3, 4, and 5, respectively, a plan, inverted plan, and end elevation thereof; Fig. 6, a vertical section on 6 6, Fig. 4. Fig. 7 is a side elevation of the holder; Fig. 8, an end view thereof; Fig. 9, a cross-section on 9 9, Fig. 7. Fig. 10 is a side elevation of the holder and cutter in position.

Referring first to Figs. 1 and 7 to 10, inclu-

sive, the holder 1 has the oblong slot 2, which receives the set-pin 3, by which it is secured to the cutter-block 4 of the planing-machine. The holder also has a slot 5 to receive the tool 6, which is dovetailed into it from the face and the edge of the holder, so that the tool can only be passed into the slot from the face of the holder, which face is bolted against the cutter-block, and the tool thereby prevented from coming out. The cutter-block in Fig. 1 has two holders and cutters upon it.

The cutter is made as shown in Figs. 1 to 6, inclusive, and Fig. 10. The cutting-point 7 is widened at its cutting edge to give clearance in work, and the wide portions of the two dovetails are upon the edge 8 and the end 9. When a cutter is worn, it can readily be swaged to the required width and resharpened. For "tonguing" the cutting-tool has two cutting edges.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of a cutter-holder having means by which it may be secured to the cutter-block of a planing-machine and a cutter dovetailed into said holder substantially as and for the purpose specified.

In witness whereof I have hereunto set my hand in presence of two witnesses.

EBENEZER HENRY SLATER.

Witnesses:

ERNEST B. VAILE,
ROBERT B. YOUNG.