

A. STREIT.
Matching-Cutters.

No. 162,114.

Patented April 13, 1875.

Fig. 1.

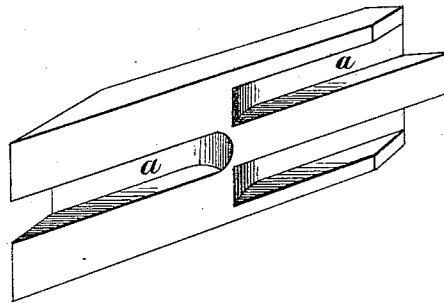


Fig. 2.



Fig. 3.

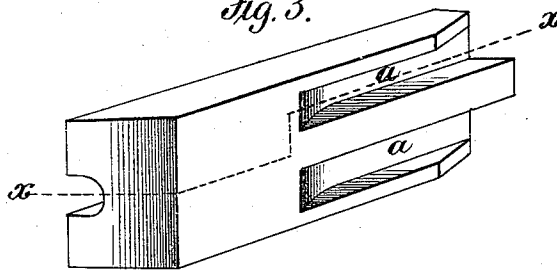


Fig. 4.



Witnesses.

A. Ruppert.
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A. Streit

Inventor.

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UNITED STATES PATENT OFFICE.

ANTON STREIT, OF CINCINNATI, OHIO, ASSIGNOR TO J. A. FAY & CO., OF
SAME PLACE.

IMPROVEMENT IN MATCHING-CUTTERS.

Specification forming part of Letters Patent No. **162,114**, dated April 13, 1875; application filed
November 12, 1874.

To all whom it may concern :

Be it known that I, ANTON STREIT, of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Matching-Cutters for the rotary cutter-heads of Planing-Machines, of which the following is a specification :

My improvement relates to the kind or class of bits having grooves in the faces thereof to form tonguing or grooving cutting-edges; and my invention consists in constructing the bit with cutting-edges at both ends, and grooves running throughout its mid-length only, so that the bit may be reversible, and one of its ends shaped for cutting tongues, and the opposite end for cutting grooves, the object of my invention being to enable a single bit to perform by reversibility two separate and distinct offices, without necessitating any increase in the length usually adopted for such bits.

Fig. 1 is a perspective view of my improved bit, constructed by reason of its short grooves, and sharpening at both ends, to cut a tongue at one end and a groove at the other. Fig. 2 is a section thereof. Fig. 3 is a view of a bit in all respects like Fig. 1, except that its cutting-edges are on opposite faces, while the cutting-edges of Fig. 1 are on the same face. Fig. 4 is a section of the bit shown in Fig. 3.

My improved bit is constructed, as shown, with two essential features of construction: First, it has cutting-edges at both ends, to per-

mit a single bit of the usual length to perform by reversibility two different offices; second, it has grooves *a* cut on one or both of its faces, as shown, but extending over only about half its length, so as to enable, in the manner shown, the formation of a tonguing or grooving edge at one end, and a different edge at the other end, without necessitating any increase in length of bit over the usual or customary length.

I do not claim, broadly, a reversible bit, or a bit having cutting-edges at both ends. My invention consists in the embodiment in a single piece of iron or steel of two bits of different function, the two together having no greater length than the ordinary single-edged bit of either kind. As a consequence of this construction I am enabled to materially reduce the number of bits considered as pieces to a set usually accompanying a planing-machine, and thereby effect a considerable saving.

I claim—

A cutting-bit, having cutting-edges at both ends, and grooves *a* extending from the opposite ends to the middle of the bit, substantially as and for the purpose specified.

In testimony of which my invention I hereunto set my hand.

ANTON STREIT.

Witnesses:

FRANK MILLWARD,
EDGAR J. GROSS.