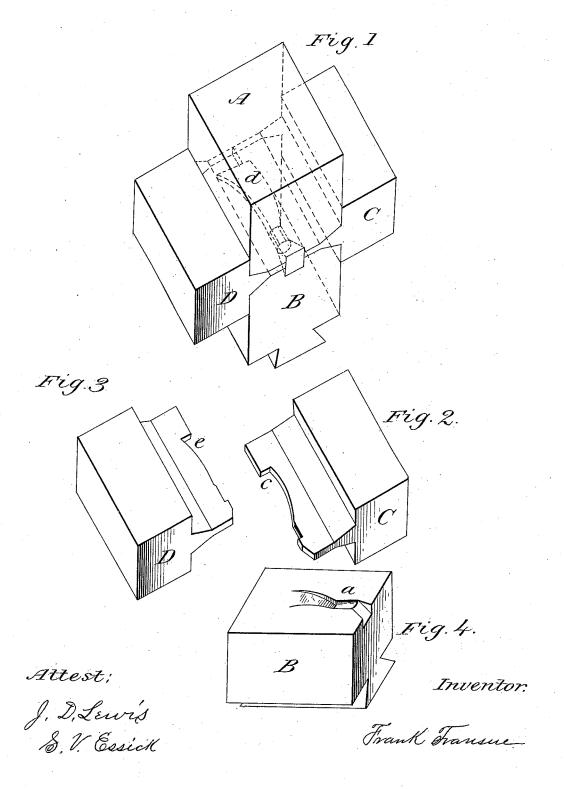
F. TRANSUE. Dies for Threshing-Machine Spikes.

No. 221,372.

Patented Nov. 4, 1879.



UNITED STATES PATENT OFFICE.

FRANK TRANSUE, OF ALLIANCE, OHIO.

IMPROVEMENT IN DIES FOR THRASHING-MACHINE SPIKES.

Specification forming part of Letters Patent No. 221,372, dated November 4, 1879; application filed February 25, 1879.

To all whom it may concern:

Be it known that I, FRANK TRANSUE, of Alliance, in the county of Stark and State of Ohio, have invented a new and useful Improvement in Dies for Making Thrashing Machine Spikes and other forged articles, which improvement is fully set forth in the following specification.

In reference to the accompanying drawings, Figure 1 is a perspective view of the invention, showing the dies A, B, C, and D brought together as they are, while forming a spike. Fig. 2 is a view of the right-hand die C, which forms the convex edge of the spike. Fig. 3 is a view of the left-hand die D, which forms the concave edge of the spike. Fig. 4 is a view of the die B, which is exactly like the upper die, A.

A and B are dies having recesses, as shown at a, by which the thick portion of the spike is formed. C is a die, having a recess, as shown at c, by which the convex edge and a portion of the stem of a spike is formed. D is a die, having a recess, as shown at c. The dotted lines at d represent the spike inclosed in the dies A, B, C, and D, when completed by the use of said dies. e is a recess in the die D, by which the concave edge of a thrashing-machine spike is formed. c is a recess in the die C, by which the convex edge of a thrash-

ing-machine spike is formed. *a* represents a recess, which is alike in both the upper and lower dies, which is used for forming the thick portion of the sides of a thrashing-machine spike.

The operation of my invention may be described as follows: The said die B is firmly fixed in the base or anvil of a drop-hammer or its equivalent. The die A is attached to the drop of said machine. As the said die A starts in its downward movement, by the use of levers or their equivalents, the die C and D are moved in the position in which they are seen in Fig. 1, where they remain until the said die A has completed its stroke. As the said die A rises, after having completed its stroke, the dies C and D move apart and so remain until the die A again drops, when, as the said die again starts downward, the said dies C and D are again brought together, and so remain until the said die A has again completed its stroke.

What I claim is-

The combination of the dies A, B, C, and D, shaped as described, and for the purpose of forming thrashing-machine spikes.

FRANK TRANSUE.

Witnesses:

J. M. HARRISON, S. V. ESSICK.