

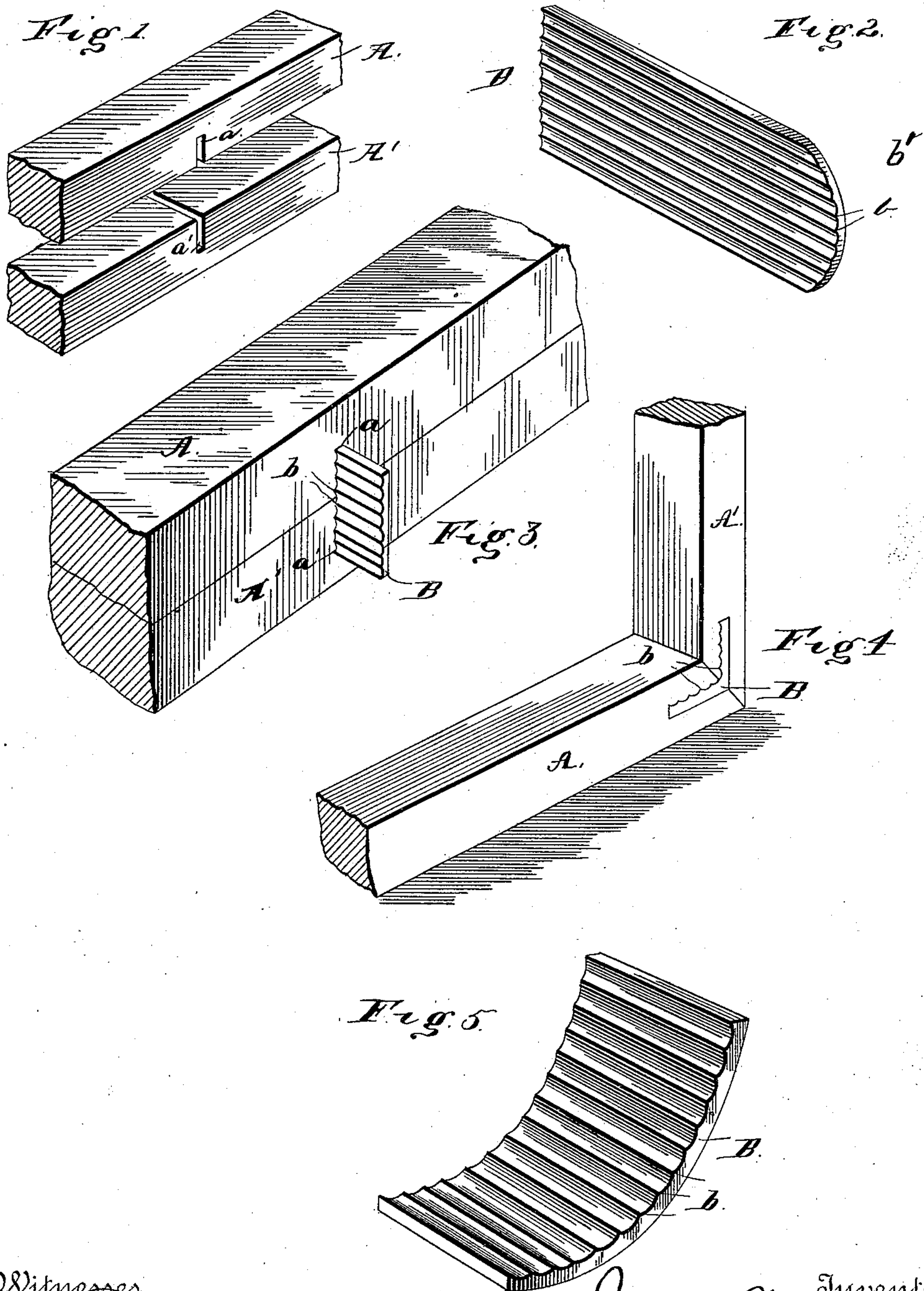
(No Model.)

J. COLLINS.

WOOD JOINT.

No. 376,236.

Patented Jan. 10, 1888.



Witnesses  
Geo. Thorpe.  
John H. Siggers.

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J. Collins,  
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# UNITED STATES PATENT OFFICE.

JAMES COLLINS, OF CRAWFORDSVILLE, INDIANA.

## WOOD-JOINT.

SPECIFICATION forming part of Letters Patent No. 376,236, dated January 10, 1888.

Application filed March 9, 1887. Serial No. 230,282. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES COLLINS, a citizen of the United States, residing at Crawfordsville, in the county of Montgomery and State of Indiana, have invented a new and useful Improvement in Wood-Joints, of which the following is a specification.

The invention relates to improvements in wood-joints such as are used by joiners or carriage-makers to unite the parts of a piece of cabinet-work or of a vehicle, the object being to produce a simple and durable joint of great strength without splitting the wood, and which can be used with great advantage in the art of carriage-making. While particularly adapted to wood, the joint can be made with any equivalent material.

The invention consists in the construction of the uniting-key and the combination of the same with the two pieces of wood or equivalent material forming the joint, as hereinafter described, illustrated in the drawings, and pointed out in the claim hereto appended.

In the accompanying drawings, Figure 1 represents a perspective view of the two pieces of wood prepared and in position to have the joint made between them. Fig. 2 represents a perspective view of the uniting-key. Fig. 3 represents a perspective view of the two pieces of wood and the key driven home to form the joint. Fig. 4 shows a perspective view of a miter-joint united by a modified form of the key. Fig. 5 shows a perspective view of a second modification of the key.

Referring to the accompanying drawings by letter, A A' designate, respectively, two pieces of wood or equivalent material, in each of which is formed by a saw a similar kerf, *a a'*, each running preferably to an equal depth in its respective piece and at right angles to the surface thereon.

B is the uniting-key, provided on one or both sides with parallel longitudinal flutes forming parallel ridges *b b*. The key is of metal, and the said edges should have a suffi-

cient degree of sharpness. The key may be flat, curved, bent upon itself so as to form a longitudinal angle, or of any other useful cross-section. A key bent upon itself at right angles longitudinally is preferable in making miter-joints, and a key straight in cross-section in making ordinary joints.

To form the joint, the two pieces A A' are held firmly together with their respective kerfs *a a'* in line with each other. The lower end, *b'*, of the key, which is rounded or beveled at its corners for easy insertion, is placed upon the said kerfs, and the key is driven home therein, the kerfs forming a guide and passage-way for the key and the ridges forcing themselves into the wood of the adjacent pieces. When the joint is thus formed, the key itself prevents the pieces from slipping on each other, and the ridges, by their hold on the wood, prevent the pieces from separating laterally, so that a strong and very secure joint is made.

My invention is especially designed for use on buggy-bodies.

Having thus described my invention, I claim—

In a joint, the combination of the members A A', provided with the communicating kerfs *a a'*, having parallel plain-faced sides, and the metallic key B, adapted to enter the said kerfs and connect the members, the said key having parallel sides, one of which is smooth, and the other one of which is provided with a series of parallel longitudinal ridges or corrugations which enter one of the sides of the kerfs as the key is driven thereinto, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JAMES COLLINS.

Witnesses:

ISAAC M. VANCE,  
MICHAEL J. CARROLL.