

(No Model.)

I. E. PEARSALL.  
COMBINED LADDER, &c.

No. 358,218.

Patented Feb. 22, 1887.

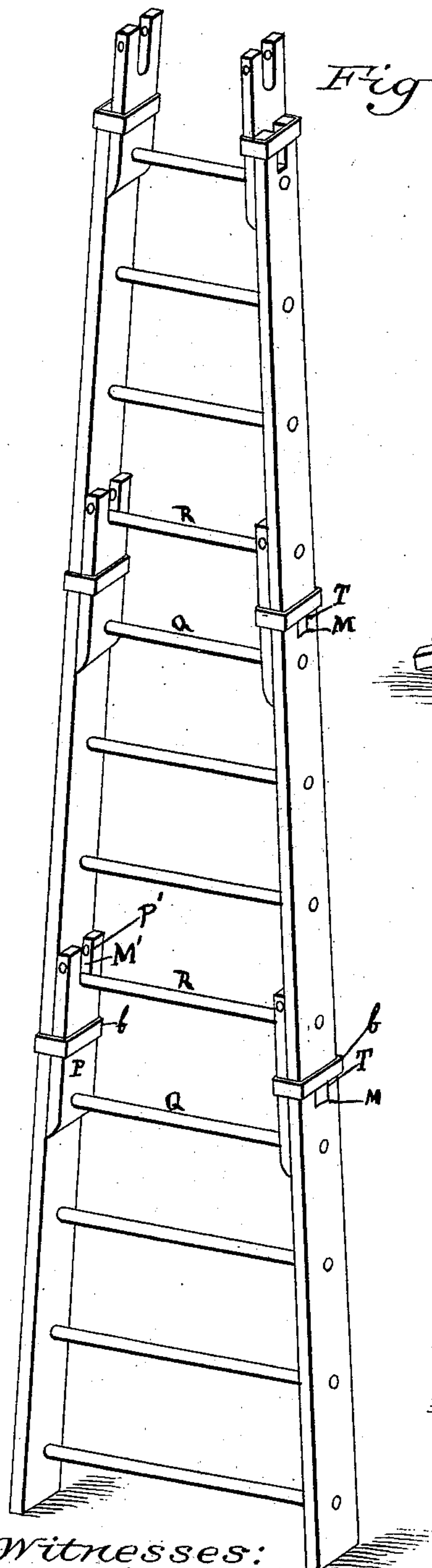


Fig. 1.

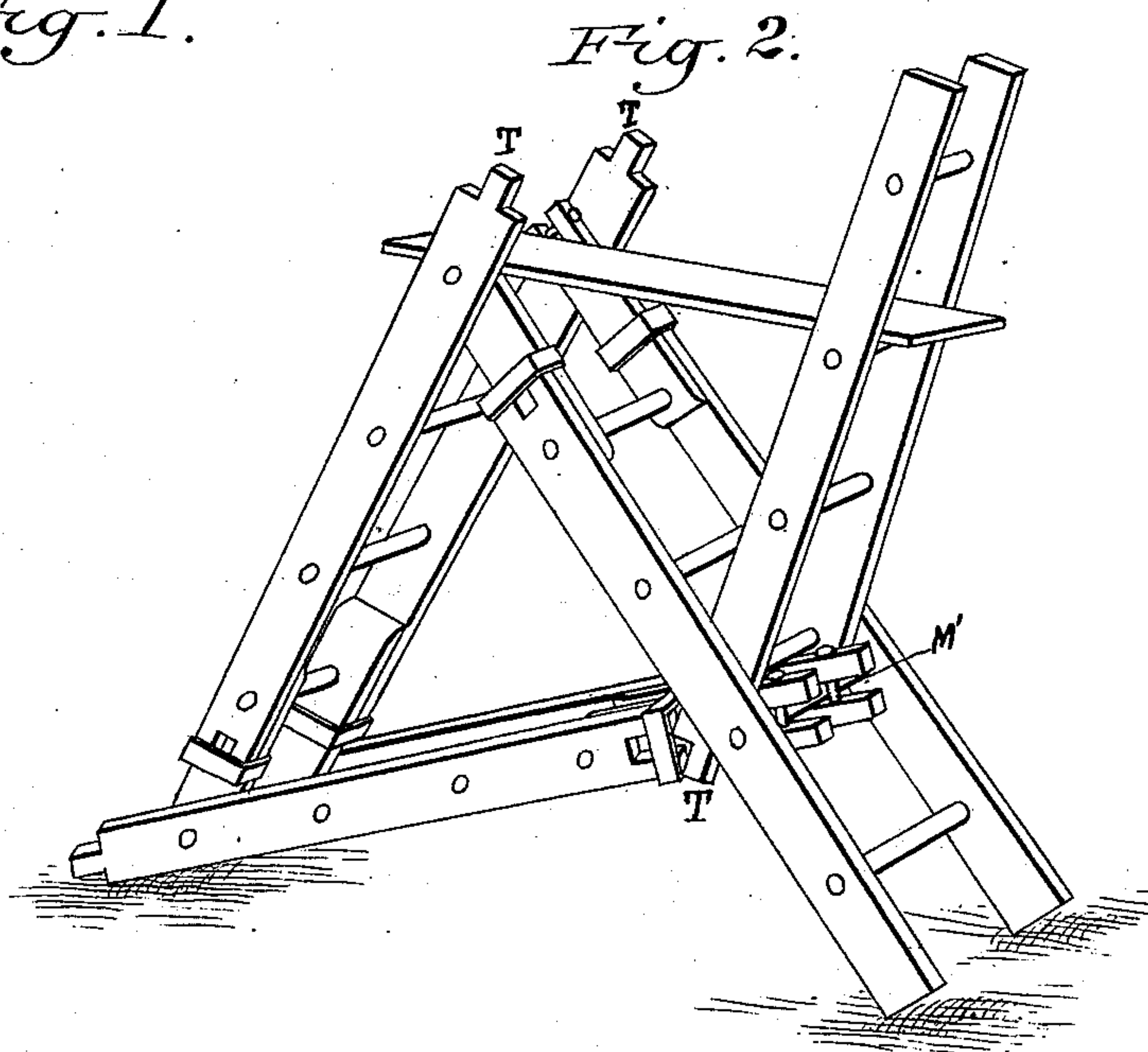


Fig. 2.

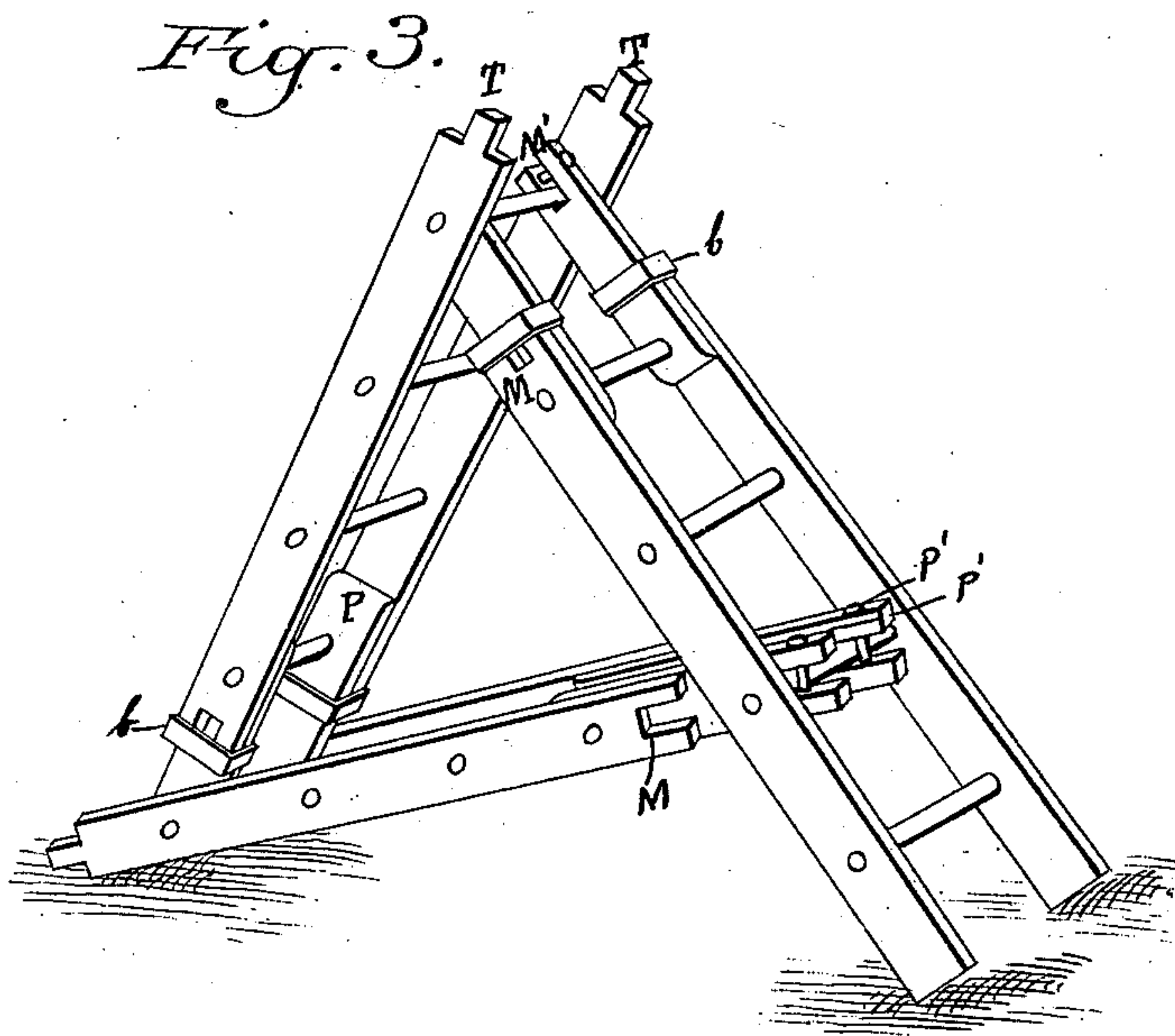


Fig. 3.

Witnesses:  
R. H. Cooley  
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Inventor:  
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# UNITED STATES PATENT OFFICE.

ISAAC ELMER PEARSALL, OF TROY, BRADFORD COUNTY, PENNSYLVANIA.

## COMBINED LADDER, &c.

SPECIFICATION forming part of Letters Patent No. 358,218, dated February 22, 1887.

Application filed September 27, 1886. Serial No. 214,678. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC ELMER PEARSALL, a citizen of the United States, residing in Troy township, in the county of Bradford and State of Pennsylvania, have invented a new and useful Combined Ladder, Staging, and Step-Ladder, of which the following is a specification.

My invention relates to improvements in straight ladders in which several joints or sections are joined or articulated together, so as to form a straight ladder of any desired length; or said sections may be formed into a staging for any work, where such is desired, or into a step-ladder for use in any case, at the will of persons desiring to thus use the same.

Figure 1 is a perspective view of the sections connected to form a straight ladder. Fig. 2 is a similar view of the sections connected to form a staging, and Fig. 3 is an arrangement of the device to form a step-ladder.

In carrying out my invention I provide a straight ladder in sections firmly joined together by a tenon, T, on the lower end of each section (after the first) fitting into a mortise, m, in the upper end of each section, (except the last.) A piece of wood, P, is fastened on the inside of each lower section by the upper round, R, of such section passing through it and into the side pieces of the ladder, with a metallic band, b, around both, holding them firmly in place. There is a mortise, m', in the upper end of each piece of wood, so fastened to the inside of the side pieces of the lower section as to fit over the lower round, R, of the section above, and a pin, P', is inserted through the upper ends of the pieces P, thus forming a strong and durable joint.

To provide the foundation for a staging or platform, place the lower end of the fourth section on the upper end of the third section, its

lower round resting on the sides of the third section, when the pieces are arranged to form a step-ladder. The fourth section stands obliquely and nearly parallel with the second section when combined in the step-ladder. By placing a board or plank on the top of the step-ladder and on the fourth section the staging is complete.

To arrange a step-ladder, place the mortise of the first section on the lower round of the second section, placing them in the form of capital letter A. Set the mortise of second section on the lower round of third section. Place the mortise of the third section on the second round of the first section and fasten with pins. This forms a complete double step-ladder firmly tied together.

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

A straight ladder consisting of sections joined together in manner following: the side pieces of each lower section having a mortise at the top to receive a tenon on the lower end of each succeeding section at the upper end of the side pieces, inside of each of which is attached a piece of wood, through which the upper round of each section passes, and at the point where the sections join a metallic band passes around the side pieces and the piece of wood thus attached, these pieces thus fastened having mortises or slots at the top, which slip onto the lower round of each succeeding upper section, and an iron pin is used, passing just above the round through the pieces thus arranged, thus holding the joints firmly together to form a ladder of any desired length.

ISAAC ELMER PEARSALL.

Witnesses:

R. H. COOLEY,  
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