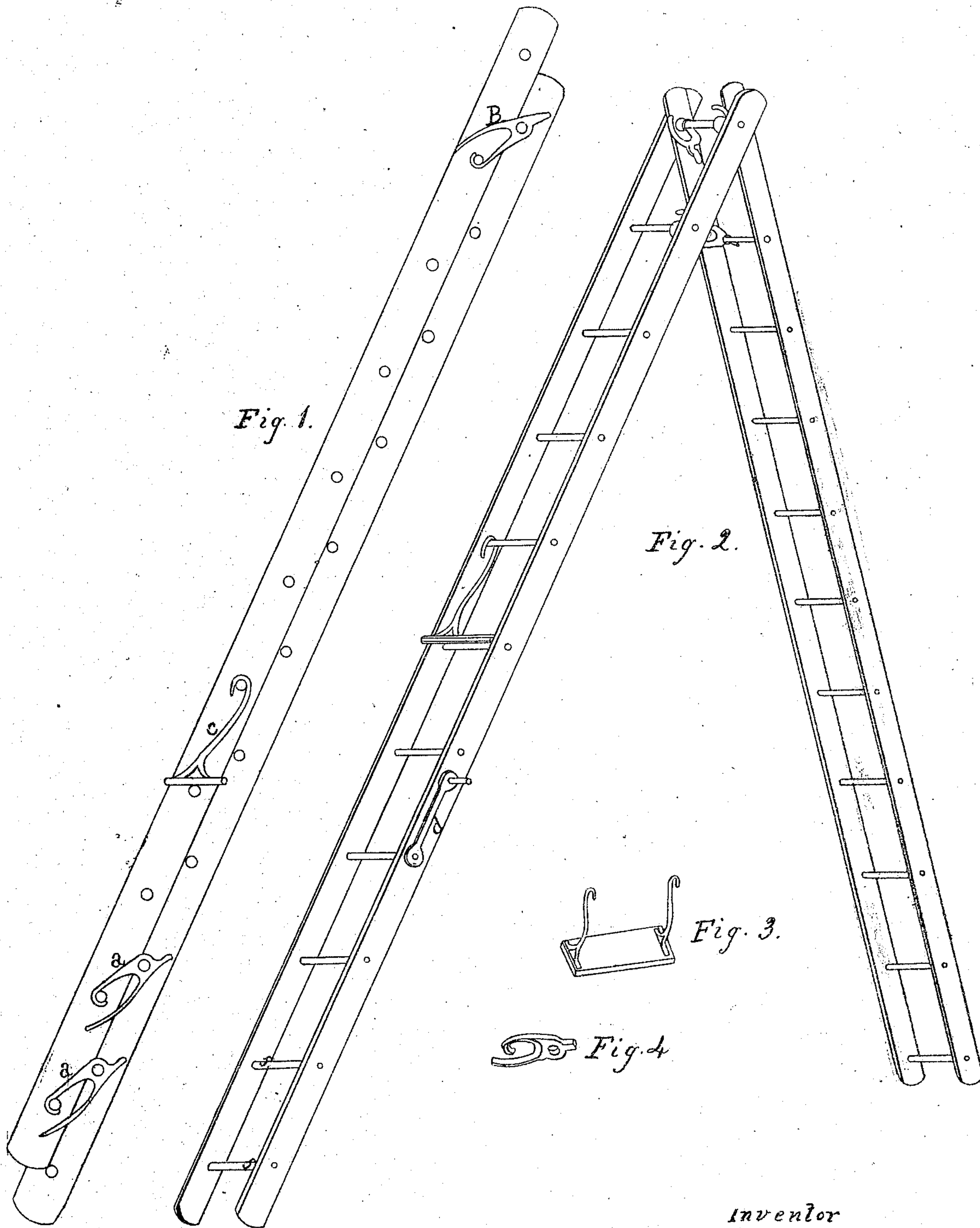


*S. E. Hewes,  
Ladder.*

*Nº 75,907.*

*Patented Mar. 24. 1868.*



*Witnesses  
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# United States Patent Office.

S. E. HEWES, OF ALBANY, NEW YORK.

*Letters Patent No. 75,907, dated March 24, 1868.*

## IMPROVED EXTENSION AND STEP-LADDER.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, S. E. HEWES, of the city and county of Albany, and State of New York, have invented a new and useful Improvement in Portable Extension and Step-Ladder; and I do hereby declare the following to be a full, clear, and exact description of the same, sufficient to enable one skilled in the art to which the invention appertains to make use of it, reference being had to the accompanying drawings which form a part of this specification, in which—

Figure 1 is a drawing showing the stiles of the ladder, and the hooks and step in position when the ladder is not extended.

Figure 2 shows the ladder, hooks, and steps in position as a step-ladder.

Figure 3 is a perspective view of the balance-step.

Figure 4 is a perspective view of the balanced hook.

This device consists in the make, form, shape, and application of the balanced hook and step. The step, C, shown by the section, fig. 1, can be placed on any round of the ladder which occasion for its use may require. Its weight brings it to the round below, on which it will firmly rest.

The hooks, *a a*, are placed on the rounds of the ladder of the second section at 5 5, shown on fig. 2. The hook B is placed on the top round of the ladder of the first section. These hooks do operate together, when the ladder is extended by moving the top section of the ladder upwards, and hook to and unhook from any round of the ladder when and where desired for the length of the ladder. When the ladder is to be converted into a step-ladder, the hooks are allowed to take the rounds, as shown at the top of ladder, fig. 2. The ladder may be extended by the use of pulley, cord, and crank, or by the hand without their use. The hooks are made so that the weight of metal balances them in the position to hook and unhook to the rounds of the up-moving section of the ladder at any place required. Also, with the hole through them, to work easily on the round of the ladder, requiring no cutting into or fastening thereto, thus securing the whole strength of both hooks and rounds.

The hooks are placed so as to secure the firmest hold, and strongest and safest splice. Being placed, two at the foot, 5 5, of the upper or second section, and one at the top of the lower or first section, secures the strength of three rounds of each section, so that the splice is always secure, independent of any guides. The hooks are placed in this order when the ladder is made of two or more sections.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The step C, in combination with the ladder, substantially as shown and described.

S. E. HEWES.

Witnesses:

JOEL TIFFANY,  
G. L. STEDMAN.