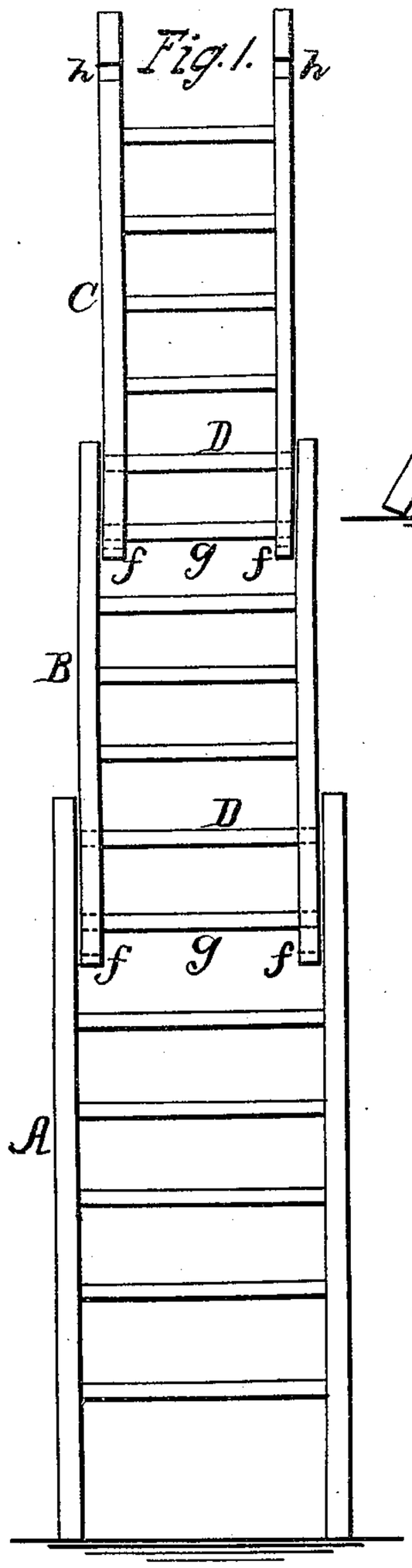
H. B. Malbone.

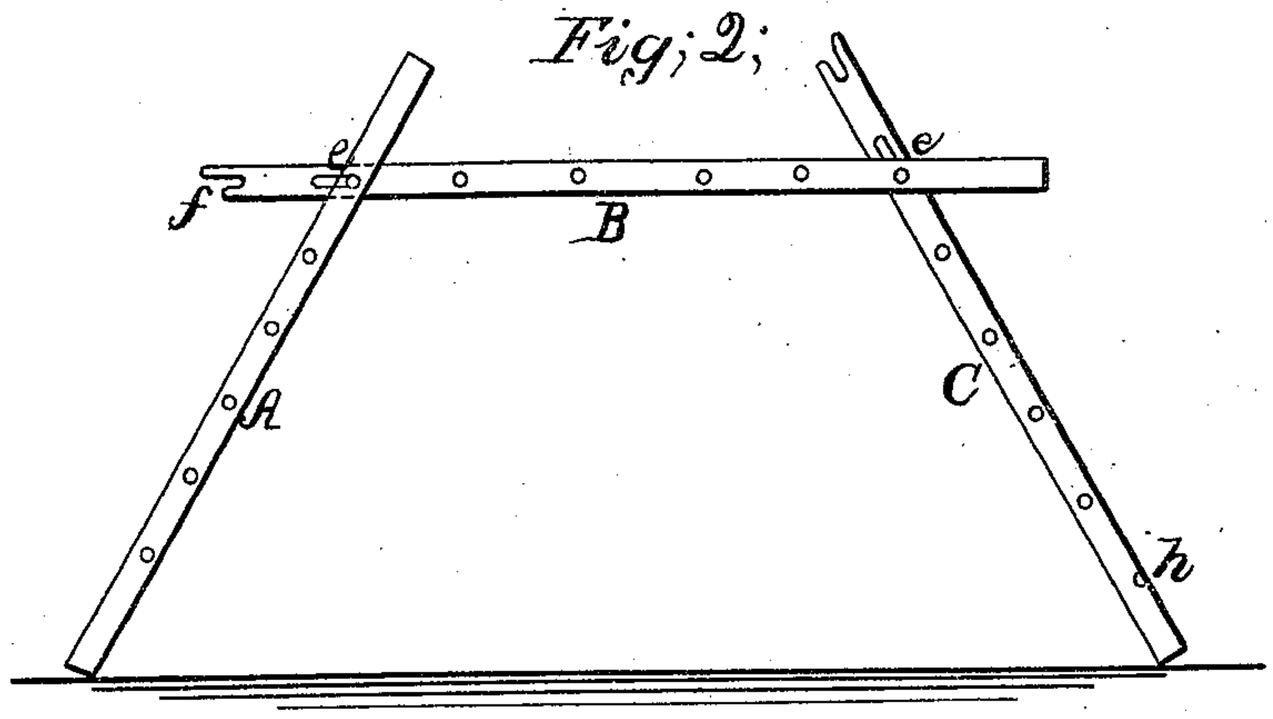
Ladder.

No. 93,323. Patented Aug. 3, 1869.

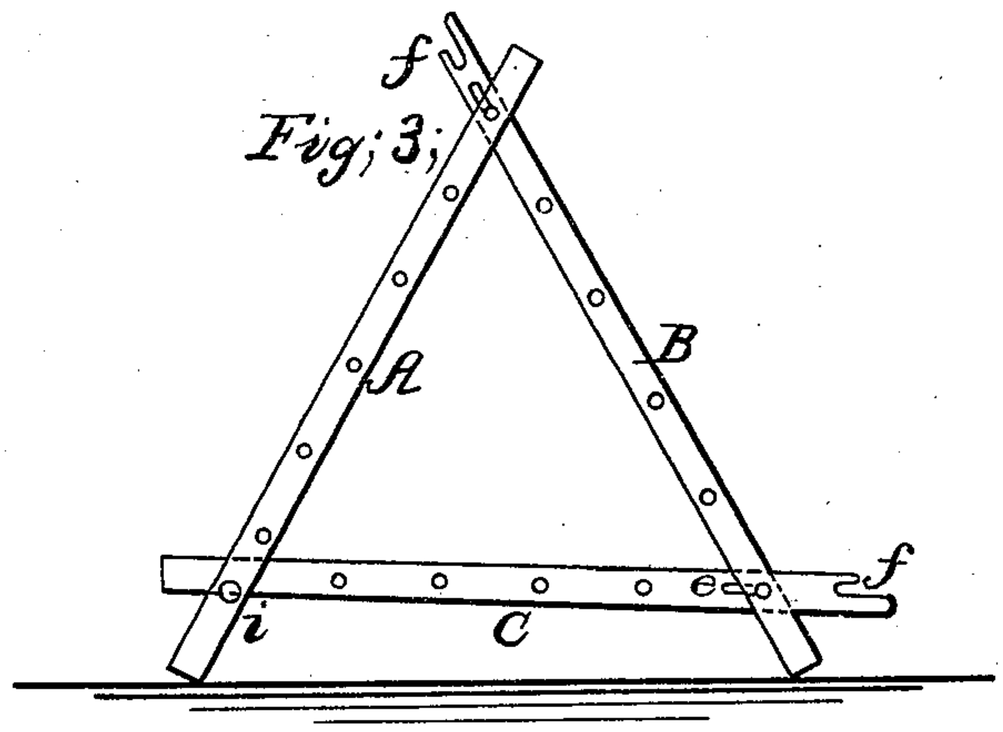
Fig. 1.



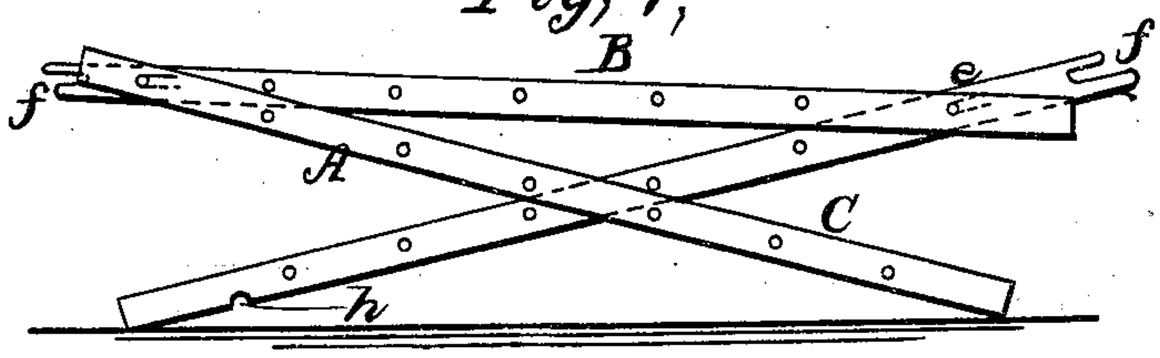
Fig; 2;



Fig; 3;



Fig; 4;



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Letters Patent No. 93.323, *dated August* 3, 1869.

IMPROVED CONVERTIBLE 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, HENRY B. MALBONE, of Geneva, in the county of Ontario, and State of New York, have invented a new and useful Improvement in Convertible Ladders; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and useful improvement in ladders, whereby they are made convertible to various purposes, and consists in so constructing it that its shape and conformation may be readily changed, so as to adapt it to various purposes, as will be hereinafter described.

In the accompanying sheet of drawings—

Figure 1 represents a view of a ladder, made in three sections, with the sections placed as when forming a long ladder.

Figure 2 shows the three sections still united together, but placed so as to form a staging.

Figure 3 represents the three sections as forming a self-supporting step-ladder.

Figure 4 represents them as forming a bench.

Similar letters of reference indicate corresponding parts.

A, B, and C represent the different sections.

D represents the joint-rounds, by which the sections are at all times united.

In the sections B and C, these joint-rounds pass through slots instead of round holes, as seen in the drawing at *e*.

The lower ends of the rails of the two upper sections B and C are forked, as seen at *f*, which forks, when the sections are together, as seen in fig. 1, slip down and over the rounds *g g*, and thus support the ladder when extended as seen.

The slots *e* allow of this arrangement, and it will be seen that by raising the section B the length of the slot from it, and the section C the length of the slot from B, the sections may be turned on the joint-rounds, and the ladder made to assume the positions seen in the other figures.

h, in the section C, represents circular recesses for engaging with the lower round of the section A, and supporting the step-ladder, as seen at *i* in fig. 3.

To render the ladder thus convertible, each of the upper sections is diminished in width from the section below, to the extent of the thickness of the rails, as seen in the drawing.

The advantages of this arrangement are many. The ladder can at any time be diminished in length, if necessary, and the other forms into which it can be convertible are each separately of scarcely less importance and value than the extended ladder itself.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

A sectional ladder, the sections of which are connected by the rounds of the ladder passing through slotted holes, the ends being provided with open slots, and the upper section with a notch or stop, in such a manner that the sections may form a continuous, or step-ladder, substantially as and for the purpose set forth.

HENRY B. MALBONE.

Witnesses:

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