

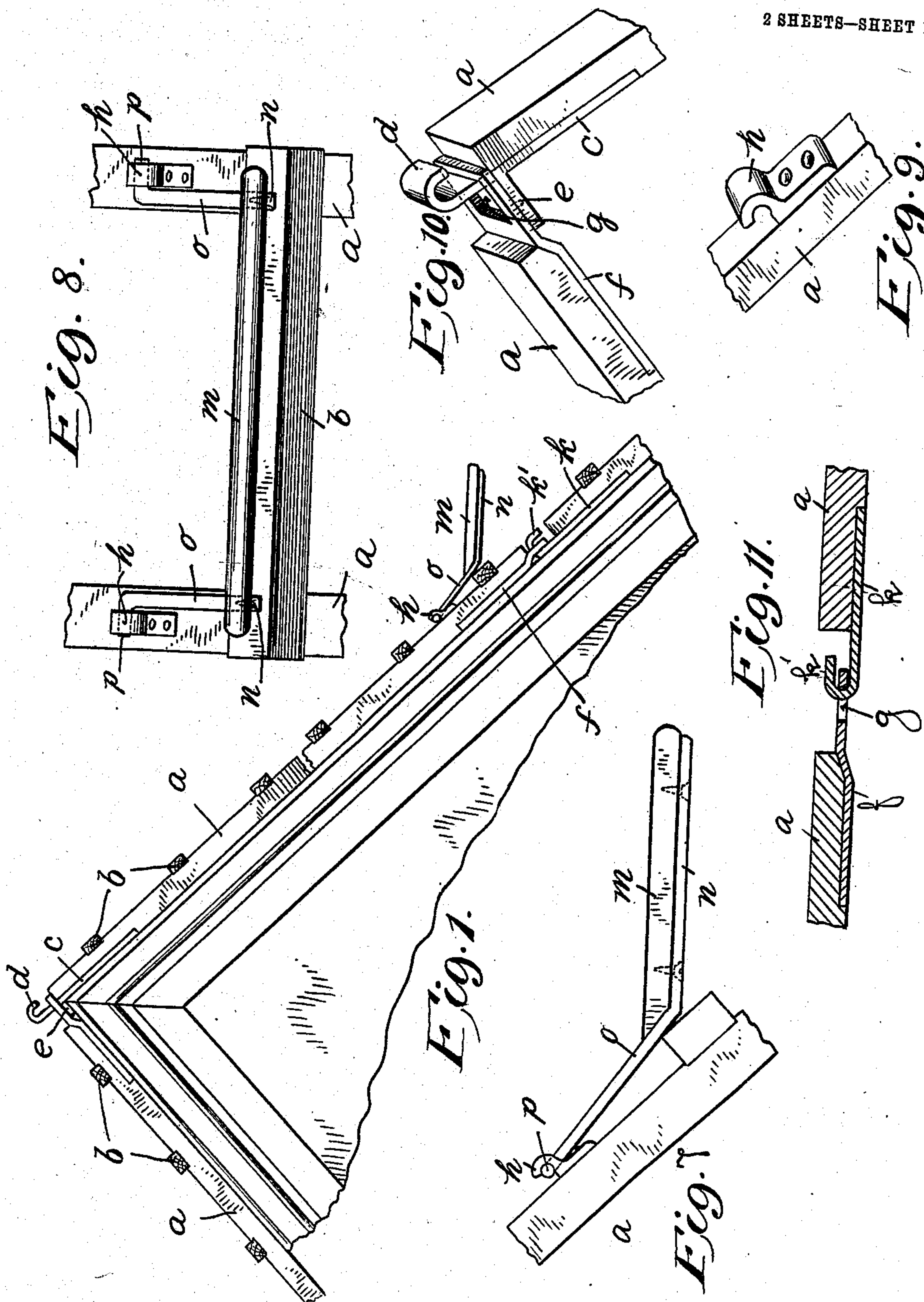
L. W. THOMPSON.
LADDER.

APPLICATION FILED APR. 22, 1908.

900,232.

Patented Oct. 6, 1908.

2 SHEETS—SHEET 1.



Witnesses:
M. Hamilton.
M. Campion.

L. W. Thompson Inventor
By his Attorney
James Hamilton

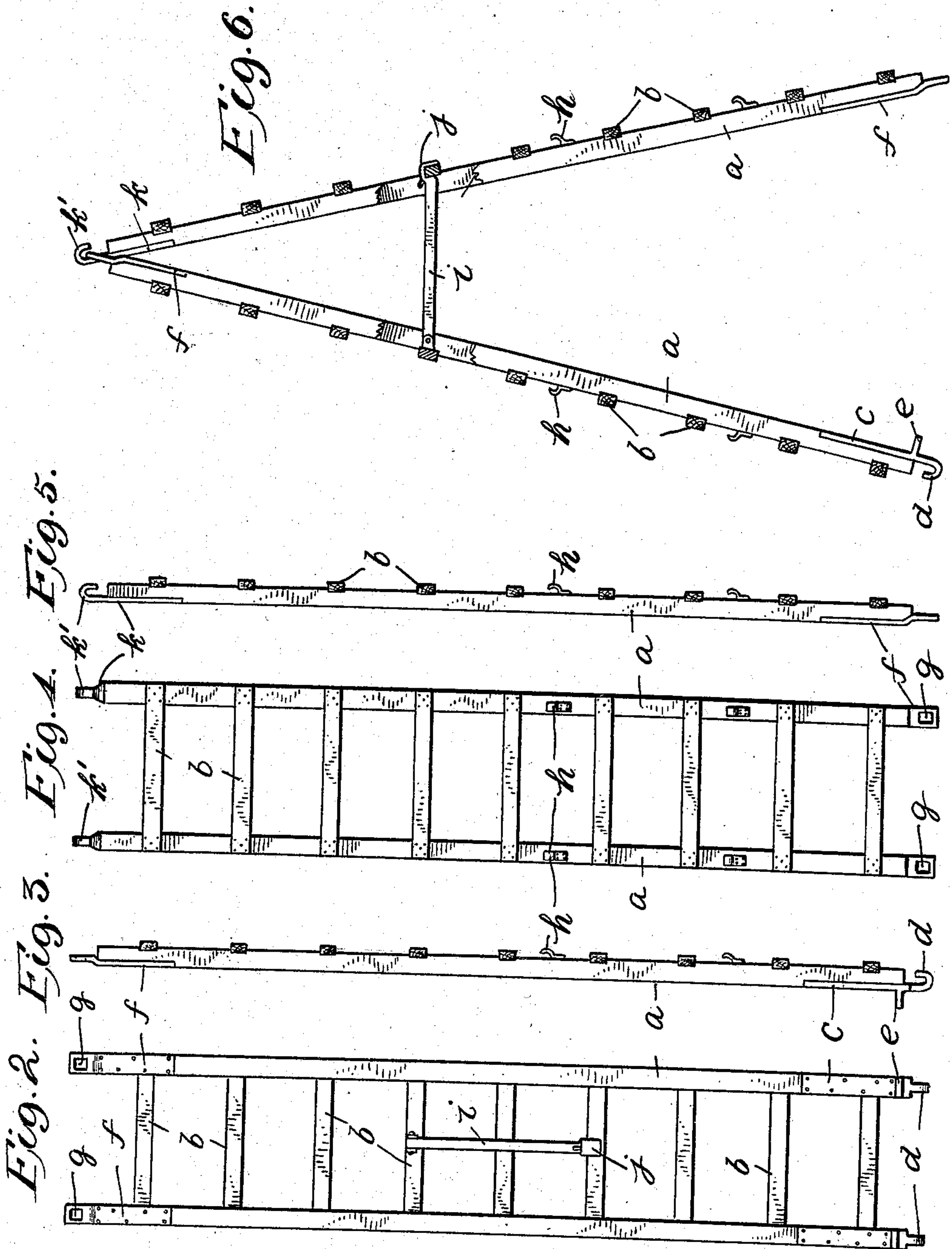
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UNITED STATES PATENT OFFICE.

LEROY W. THOMPSON, OF WAYNESBURG, PENNSYLVANIA.

LADDER.

No. 900,232.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed April 22, 1908. Serial No. 428,580.

To all whom it may concern:

Be it known that I, LEROY W. THOMPSON, a citizen of the United States, residing at Waynesburg, in the county of Greene and State of Pennsylvania, have invented certain new and useful Improvements in Ladders, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in ladders and particularly to improvements in ladders designed for use upon roofs.

An object of my invention is to provide a ladder of the class described which will be absolutely safe in use.

Another object of my invention is to provide a ladder of the class described with a detachable shelf adapted to receive the material and tools with which the roofers are working, such as buckets of paint, brushes, bundles of shingles and the like.

A further object of my invention is to provide a sectional ladder, the sections of which may be readily attached to and detached from one another.

A further object of my invention is to provide a ladder which may be used upon both sides of the roof.

In the drawings illustrating the principle of my invention and the best mode now known to me of applying that principle, Figure 1 shows my new ladder arranged upon both sides of a roof; Fig. 2 is a bottom plan view of the topmost section adapted to engage the crest or ridge of the roof; Fig. 3 is a side or edge view of what is shown in Fig. 2; Fig. 4 is a plan view of one of the lower sections of the ladder; Fig. 5 is an edge or side view of what is shown in Fig. 4; Fig. 6 shows the sections illustrated in Figs. 2 and 4 locked together to form a step-ladder; Fig. 7 is a side elevation and Fig. 8 is a front elevation of the removable shelf in place on the ladder; Fig. 9 is a detail in perspective showing one of the clips which hold the removable shelf; Fig. 10 is a detail in perspective showing the way in which the sections of the ladder interlock over the comb or crest of the roof; and Fig. 11 is a detail in section showing the way in which the lower sections interlock.

The topmost section or that adapted to engage the comb of the roof is provided with rails *a* which are connected by the rungs *b* in the usual manner. At one end of each of the rails *a* is fastened a strap or plate *c*, the outer

end of which is formed with a hook *d* and from which projects the flange or lug *e*. At the other end of each of the rails *a* is fastened a strap or plate *f* formed with an eye *g*. On each of the rails *a* in the spaces between the rungs are placed hook-supports or open clips *h*, the purpose of which will be hereinafter described. To one of the rungs *b* is pivotally fastened a brace bar *i* the free end of which is formed with a hook *j* adapted to engage a rung, as is shown in Fig. 6.

One of the lower sections of the ladder is shown in Figs. 4 and 5. Here the rails *a* are each provided at one end with a strap *k* the outer end of which is formed with a hook *k'* adapted to engage in the eye *g* of the strap *f* fastened to the topmost section. As in the case of the latter, the rails are provided with hook-supports *h*.

In Fig. 6, the topmost section and one of the lower sections are shown interlocked to form a step-ladder, the free end of the brace-bar *i* engaging one of the rungs. Where the ladder is used upon both sides of the roof, the hook *d* of the topmost section passes through the eyes *g* of the plates *f*, one of which is fastened to each of the rails *a* at one end of the ladder. The flange or lug *e* engages the comb of the roof, as is best shown in Fig. 1.

My new ladder is provided with a removable shelf *m* at each side of which is fastened a hanger-strap *n*, the outer end *o* of which is inclined to the plane of the shelf *m* and is formed with laterally-extending lugs *p* which are adapted to engage in the hook-supports or clips *h*. The latter are so positioned that the part *o* of the strap *n* will rest upon one of the rungs near its junction with the shelf *m*. It is obvious from an inspection of the drawing that the shelf *m* may be readily removed from one set of clips and engaged with another set of clips along the ladder, as may be desired.

The hereinbefore-described ladder will lie flat and rigid on the roof and will prove more safe and more convenient than ladders heretofore placed upon the market. The sections of the ladder may, of course, be made in any suitable length to suit the purpose in view. Further, my new ladder will fit roofs of various pitches and lengths and is readily assembled and dismantled.

I claim:

1. The combination with a ladder, provided with hook-supports or open clips, of a

shelf; and hanger-straps one end of each of which is fastened to said shelf and the other end of each of which is shaped to engage removably one of said hook-supports; said
5 hanger-straps being bent and adapted to rest upon one of the rungs of the ladder for support, and said shelf being supported solely by said hanger-straps.

2. A ladder of the class described made up
10 of two parts; the rails of one part being each provided with a strap formed with a flange adapted to engage the crest of the roof and with an interlocking member which projects beyond said flange; and the rails of the other
15 part being provided with straps formed to engage pivotally and removably said interlocking member; whereby the parts of said ladder are adapted to rest upon opposite sides of the roof interlocked with each other.

20 3. A ladder of the class described made up of two parts; the rails of one part being each formed with a strap having a flange adapted to engage the crest of the roof and with a hook which projects beyond said flange; and
25 the ends of the rails of the other part being provided each with a strap formed with an eye adapted to interlock with said hook.

4. A three-part ladder of the class described; the rails of one of said parts being
30 each provided at one end with a strap formed with an interlocking member; the

rails of the second part being each provided at one end with a strap adapted to engage detachably said interlocking member; and at their opposite end being each provided with
35 a strap which has a flange adapted to engage the crest of the roof and an interlocking member projecting beyond said flange; and the rails of the third part being each provided with a strap adapted to engage the
40 last-named interlocking member.

5. The combination with a ladder having hook-supports or open clips, one of which is fastened to each rail of said ladder, of a
45 shelf; and hanger-straps, one end of each of which is fastened to said shelf and the other end of each of which is formed with a laterally-extending lug adapted to engage one of said clips removably; said hanger-
50 straps being bent and adapted to rest upon one of the rungs of said ladder for support and said shelf being supported solely by said hanger-straps.

In witness whereof I have hereunto set my hand at said Waynesburg this eighteenth
55 day of April, 1908, in the presence of the two undersigned witnesses.

LEROY W. THOMPSON.

Witnesses:

W. C. MONTGOMERY,
THOMAS S. COAGO.