V. M. KESSLER.

ROOF LADDER.

APPLICATION FILED AUG. 6, 1914. RENEWED MAR. 31, 1915.

1,160,721.

Patented Nov. 16, 1915.

2 SHEETS—SHEET 1.

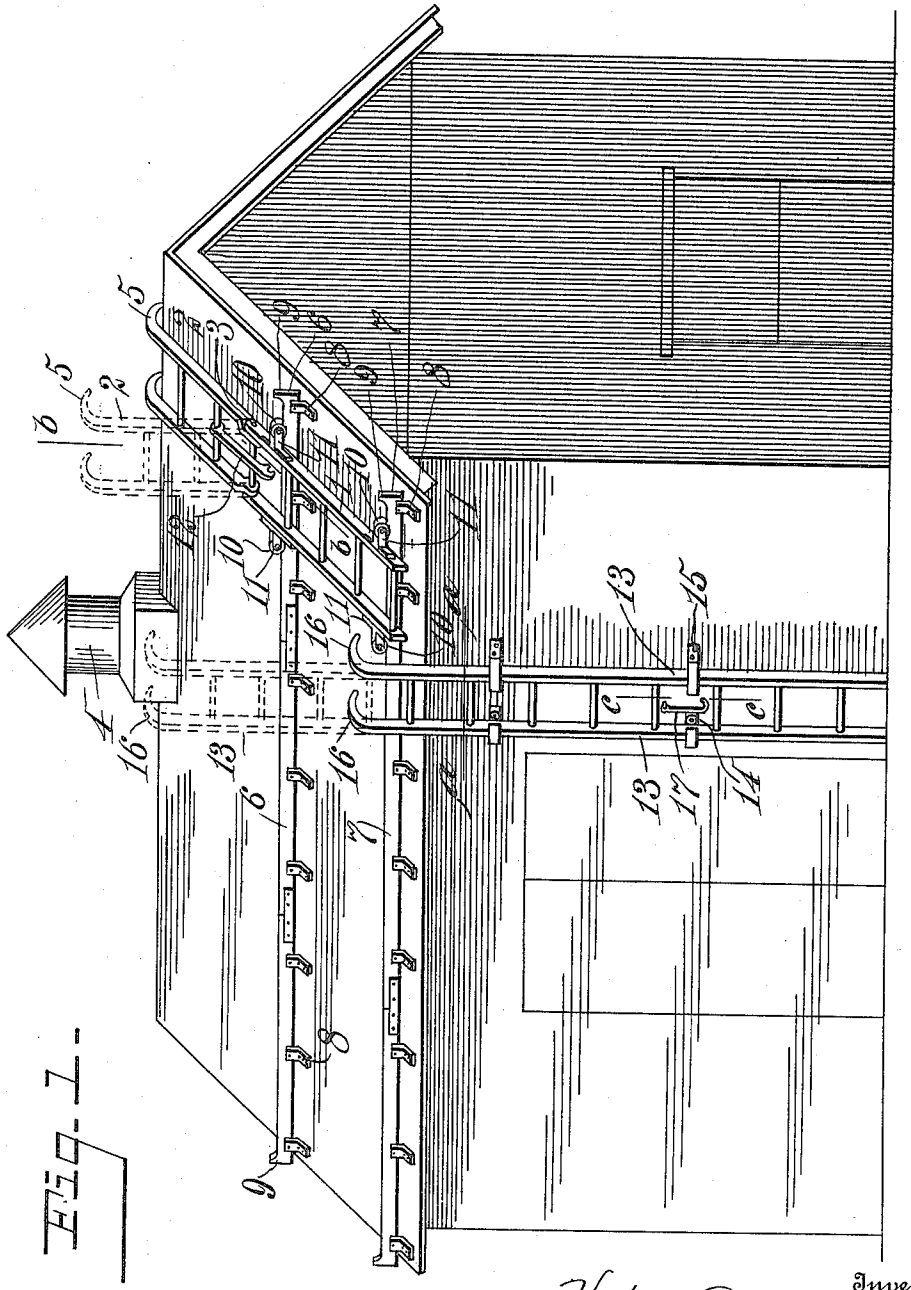


Fig. 1.

Witnesses
M. Sibler
Mellie Galloway.

Inventor
V. M. Kessler.

By R. J. McCarty
his Attorney

V. M. KESSLER.

ROOF LADDER.

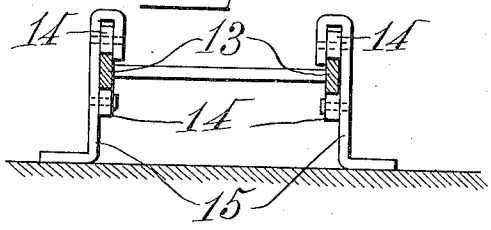
APPLICATION FILED AUG. 6, 1914. RENEWED MAR. 31, 1915.

1,160,721.

Patented Nov. 16, 1915.

2 SHEETS—SHEET 2.

Fig. 2.



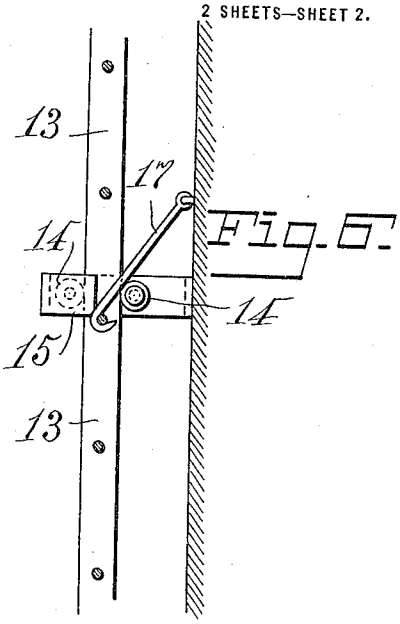


Fig. 6.

Fig. 3.

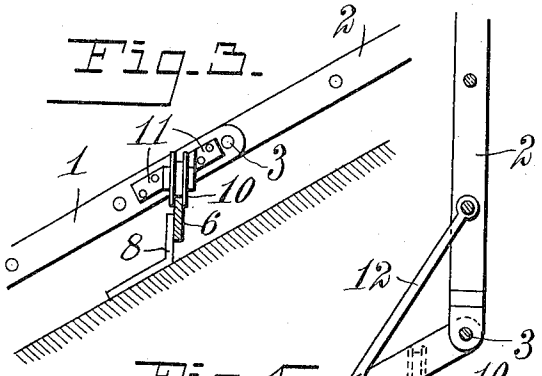


Fig. 4.

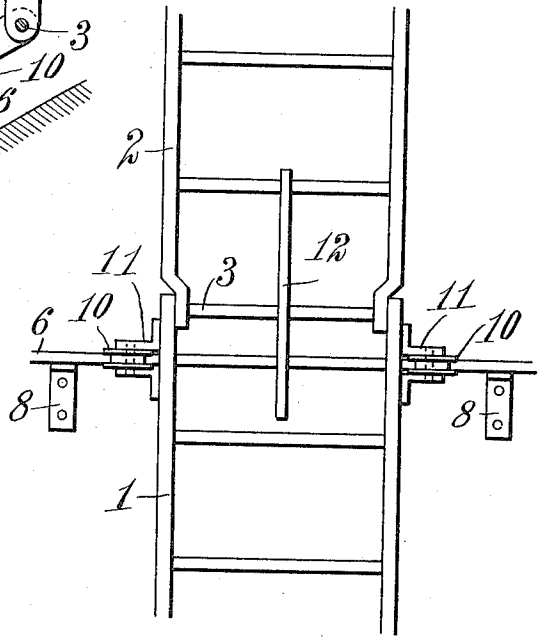


Fig. 7.

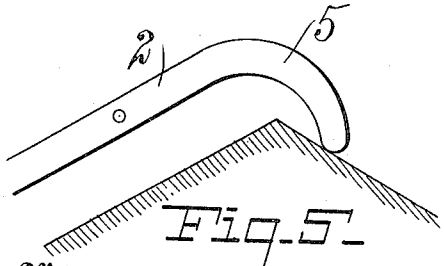


Fig. 5.

Witnesses:

M. Sibler

Mellie Galloway

Inventor

V. M. Kessler

By R. J. McCarty

Attorney

UNITED STATES PATENT OFFICE.

VIRGIL M. KESSLER, OF DAYTON, OHIO, ASSIGNOR OF ONE-HALF TO WM. KOCH, OF DAYTON, OHIO.

ROOF-LADDER.

1,160,721. Specification of Letters Patent. Patented Nov. 16, 1915.

Application filed August 6, 1914, Serial No. 855,392. Renewed March 31, 1915. Serial No. 18,409.

To all whom it may concern:

Be it known that I, VIRGIL M. KESSLER, citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Roof-Ladders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in ladders for farm buildings and consists of the ladder constructions and coöperating features hereinafter described and claimed.

The object of the invention is to provide a ladder rigging especially adapted for farm usage and by means of which ascent may be made to the roof of the building with much facility and the roof ladder moved to various parts of the roof with a minimum of effort.

In the accompanying drawings Figure 1 is a perspective view of an ordinary farm out-building or barn showing my improvements in the form of upright and roof ladders applied thereto; Fig. 2 is a view of the upright ladder on the line *a*—*a* of Fig. 1; Fig. 3 is a side elevation of a portion of the roof ladder at the hinge showing the adjacent roof and track in section; Fig. 4 is a view of the roof ladder on the line *b*—*b* of Fig. 1; Fig. 5 is a side elevation of the upper end of the roof ladder; Fig. 6 is a side elevation of the upright ladder on the line *c*—*c* of Fig. 1; and Fig. 7 is a plan view of the roof ladder adjacent to the hinge thereof.

In a detail description of the invention, similar reference characters indicate the same parts in both the description and the drawings.

1 and 2 designate the two sections of a roof ladder which are hinged at 3 and, therefore, the upper section may be elevated, as shown in dotted lines in Fig. 1, in moving the ladder past obstructions such as are usually found on barn buildings in the form of ventilators 4. The upper ends of the side members of the upper hinged section of the ladder have substantial curves 5, as shown clearly in Fig. 6. These ends clear the apex of the roof of the buildings and engage the opposite slanting side of said roof and thus the upper section of the ladder is securely supported in this manner.

6 and 7 designate two longitudinal tracks secured to the roof at suitable points by means of a suitable number of brackets 8, the ends of said tracks being turned up as at 9 to prevent the ladder from being accidentally moved off of said tracks. Mounted on the side members of said ladder at suitable points are flanged rollers 10, said rollers being secured to the ladder by brackets 11 and the tracks 6 and 7 being received between the flanges of said rollers whereby the ladder is secured upon the tracks and is free to be moved throughout the length of the roof.

A hook 12 is mounted upon one of the rounds of the ladder and is designed to engage another round to hold the upper end of the ladder in an elevated position when moving said ladder to different points of the roof when obstructions render it necessary to thus elevate the ladder upon its hinge. The utility of said ladder needs scarcely be dwelt upon. For example, in repairing the roof of a barn or other building or to extinguish an incipient fire may be mentioned among the uses thereof. The roof ladder is reached by an upright ladder mounted upon the side of the building and consisting of side members 13 united by the usual rounds and mounted between rollers 14 which engage the inner sides of the side members 13. The said side members 13 are inclosed by brackets 15 which lap over the outer longitudinal sides of said ladder, said brackets affording a place for the mounting of the rollers 14, before referred to. An essential and important feature of the upright ladder now being described consists in forming the upper ends of the side members thereof in the form of hooks 16 which provide handles which lie a suitable distance above the lower edge of the roof and by means of which the ladder may be elevated and also used as a means for protecting the person in getting on to said ladder from the roof. The upright ladder is normally elevated out of the reach of boys or others who may be disposed to tamper therewith and when thus elevated it is held out of reach by means of a hook 17 secured to the building

and adapted to engage one of the rounds of the ladder when said ladder is elevated, see Fig. 6.

Having described my invention, I claim—

1. The combination with longitudinal tracks having their ends terminated in enlargements and secured to the roof of a building, of a ladder constructed of two hinged sections one of which terminates in hooks which extend over the apex of the roof and engage the side of the roof beyond the apex, the lower section of said ladder having flanged pulleys mounted thereon which engage the tracks and whereby said ladder may be moved to different points of the roof, substantially as specified.

2. A rigging for farm buildings consisting of an upright ladder mounted thereon and the upper ends of which terminate in handles which lie a substantial distance above the lower edge of the roof, a roof ladder consisting of two hinged sections the upper section having its end terminated in curvatures which clear the apex of the roof and engage the side roof beyond said apex, tracks mounted on said roof, and rollers mounted upon the lower section of the roof ladder and engaging said tracks whereby the roof ladder may be moved to a coöperative position with the upright ladder and to various points of the roof, substantially as specified.

In testimony whereof I affix my signature, in presence of two witnesses.

VIRGIL M. KESSLER.

Witnesses:
R. J. McCARTY,
MATTHEW SIEBLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."