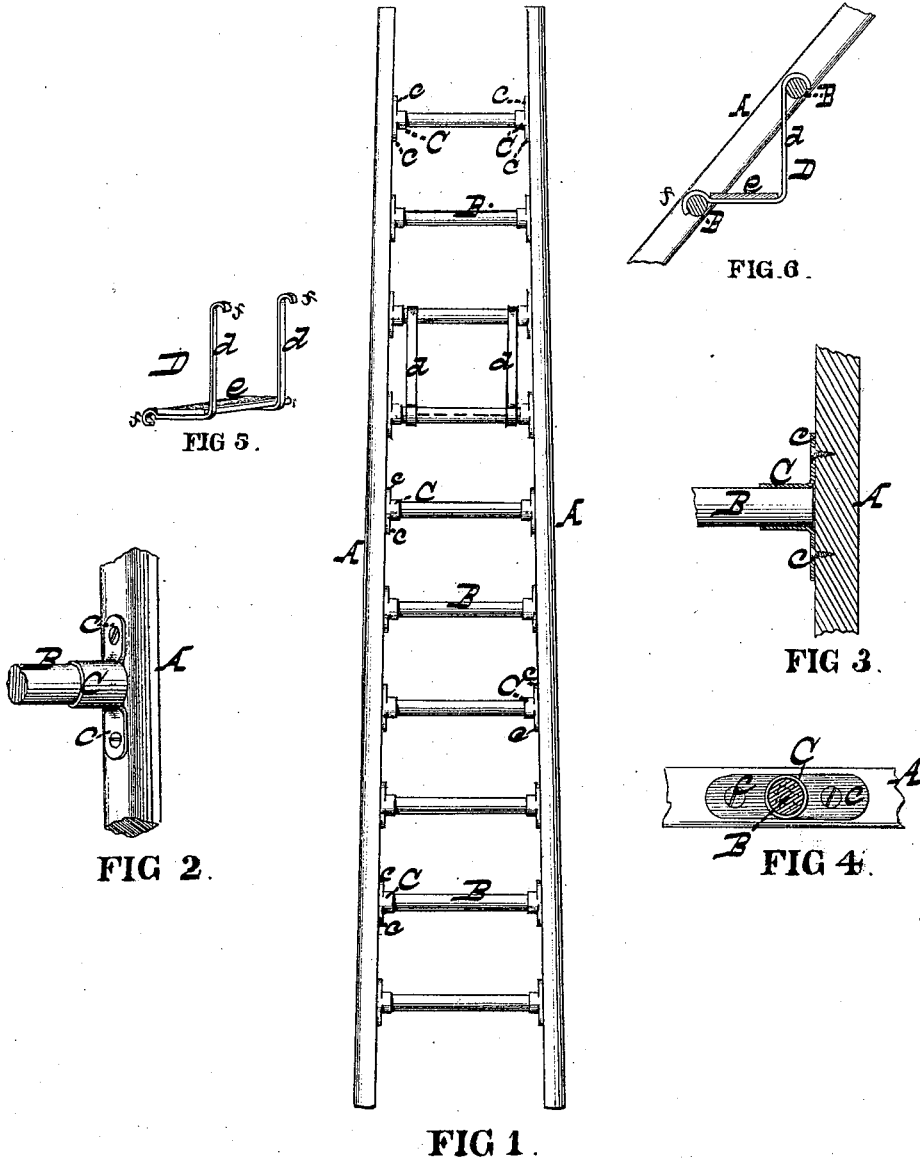


W. CASE & J. H. READ, Jr.

Ladder.

No. 169,236.

Patented Oct. 26, 1875.



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UNITED STATES PATENT OFFICE.

WHEELER CASE AND JAMES H. READ, JR., OF UTICA, NEW YORK.

IMPROVEMENT IN LADDERS.

Specification forming part of Letters Patent No. **169,236**, dated October 26, 1875; application filed July 20, 1875.

To all whom it may concern:

Be it known that we, WHEELER CASE and JAMES H. READ, Jr., of Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Ladders; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a view in elevation of a ladder with my improvements attached thereto. Figs. 2, 3, and 4 are detached views thereof. Fig. 5 is a perspective view of my ladder-step, and Fig. 6 a side view thereof attached to a ladder.

Corresponding parts in the several figures are designated by like letters.

This invention relates to a certain improvement in ladders; and it consists of sockets adapted to receive the ends of the rounds, and detachably connected or secured to the sides of the ladder, and a step adapted for use in connection with the latter, substantially as hereinafter more fully set forth.

In the annexed drawing, A A refer to the sides, and B B to the rounds, of a ladder constructed in the usual way. C C are metallic sockets, which receive the ends of the rounds B B, and which are detachably secured to the sides A A of the ladder, they being constructed with flanges *c c*, through which are inserted screws, bolts, or other suitable fastenings entering the said sides. By thus connecting or attaching the rounds to the sides of the ladder a broken or defective one can be quickly removed by simply detaching the sockets having the objectionable round and a sound or new one inserted in its place, thereby avoid-

ing the taking of the ladder apart for that purpose, as heretofore practiced. By the use of the sockets the further advantage of avoiding the boring or perforating the sides of the ladder to receive the rounds, by which it is weakened, is obtained. The rounds B B are wedged, or otherwise secured to the sockets C C, and they, in turn, suitably fastened to the sides or stiles A A, as above stated. D is a step, the metallic bars *d d* of which extend upwardly at right angles to its foot-piece *e*, and have their ends curved or formed with hooks *f f*, to permit of attachment to the rounds of the ladder to support the step in position to be stood upon when thus needed. The object of thus constructing and adapting the step to the ladder is to bring the person standing upon it as near as possible to the wall or structure, and to cause the stiles or sides to act as guards to the person, its foot-rest or board resting about flush with the round of the ladder to prevent tripping and promote convenience in ascending and descending the ladder.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The rounds A A, secured to the sockets C C, having the flanges *c c* fastened to the sides or stiles B B, substantially as shown and described, and for the purpose set forth.

2. The ladder-step, as constructed and adapted for use, consisting of the L-shaped bars *d d*, having the hooks *f f* and foot-rest or board *e*, substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own, we affix our signatures in presence of two witnesses.

WHEELER CASE.
J. H. READ, JR.

Witnesses:

B. B. MILLER, JR.,
A. C. FABER.