

C. G. BUTTKEREIT.

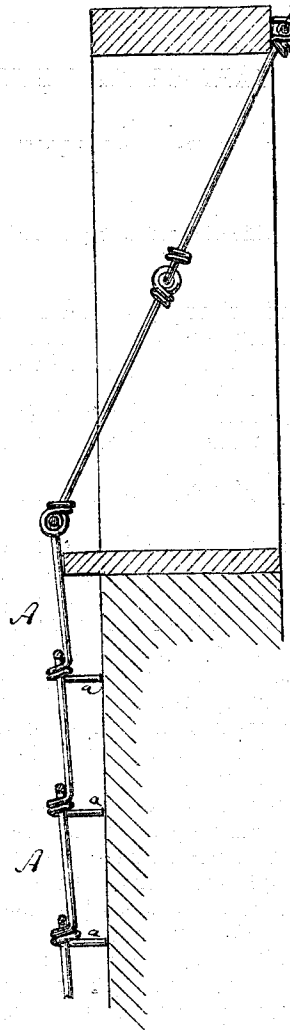
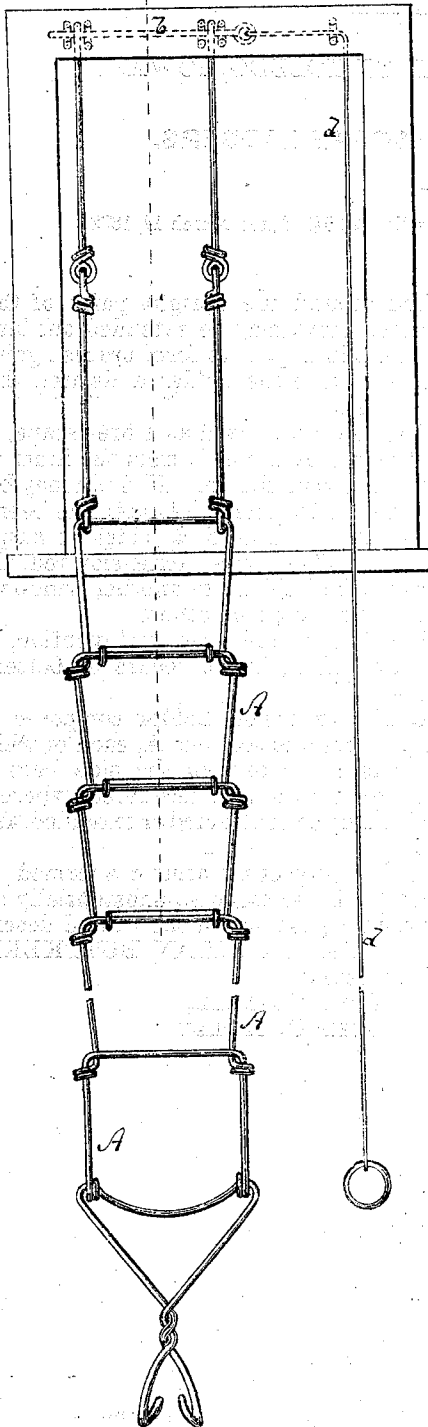
Improvement in Fire Escape Ladders.

No. 124,541.

Patented March 12, 1872.

Fig. 1.

Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

CARL GUSTAV BUTTKEREIT, OF TOLEDO, IOWA.

IMPROVEMENT IN FIRE-ESCAPE LADDERS.

Specification forming part of Letters Patent No. 124,541, dated March 12, 1872.

Specification describing a new and Improved Fire-Escape Ladder, invented by CARL GUSTAV BUTTKEREIT, of Toledo, in the county of Tama and State of Iowa.

Figure 1 represents a face view of my improved fire-escape ladder. Fig. 2 is an edge view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a ladder composed of U-shaped metallic sections, so connected that each side bar of one section embraces or is coiled around the side bars of the next, and thus allows the ladder to be packed in a small space or extended with great facility.

A A in the drawing are the U-shaped sections of my improved ladder, the ends of each section embracing the upright side pieces of the section next below, as shown. These sections are made of wire or strap metal. Being connected in the manner shown, they can slide on one another, to be contracted into a small space, and a long ladder can be preserved in a box close to a window, whence it is thrown out through a window in case of fire. The rounds of the ladder are the middle parts of the sections, as shown, and may be enlarged, if desired, by having plates or steps secured to them. The ends of each section, which are

coiled around the upright parts of the next section below, may be extended out laterally, as at *a a* in Fig. 2, to form braces against the wall and keep the ladder a desired distance from the latter.

The ladder, if used as a fire-escape, can be suspended by a pin, *b*, from the inner side of the window, as shown. This pin may be readily drawn out, after the ladder has been used, by pulling on a cord, *d*, which is suspended from it. Then, by an extension rod, the ladder may be held up to another window to assist in the escape of others.

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

1. The extension ladder composed of U-shaped metallic sections A, each of which has its ends coiled around the side bars of the next, as shown and described, whereby the ladder may be contracted or extended, as specified.

2. The projecting arms *a a* formed on the ends of the sections A, substantially as and for the purpose herein shown and described.

CARL GUSTAV BUTTKEREIT.

Witnesses:

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