

(No Model.)

2 Sheets—Sheet 1.

C. SCHRADER & F. W. KITTLER.

FIRE ESCAPE.

No. 317,862.

Patented May 12, 1885.

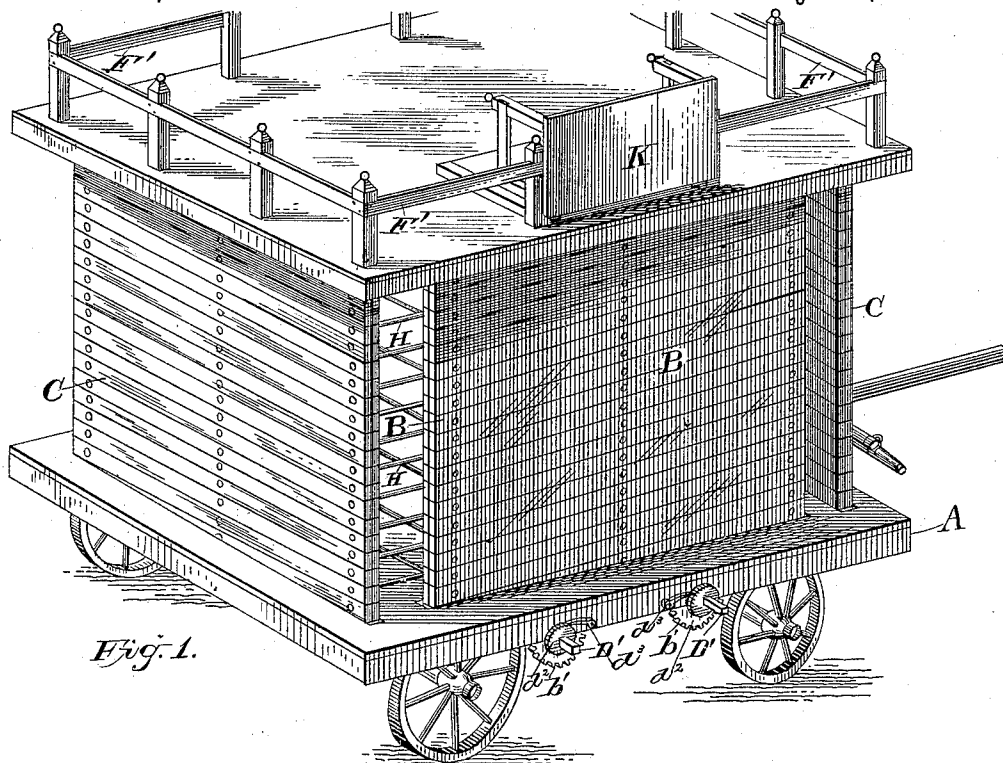
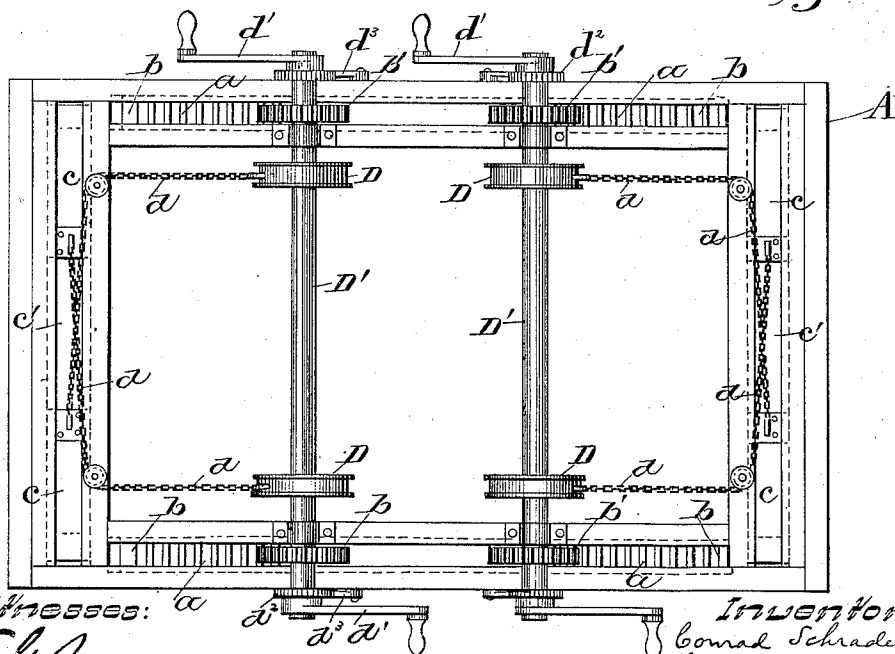


Fig. 1.

Fig. 2.



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2 Sheets—Sheet 2.

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Fig. 3.

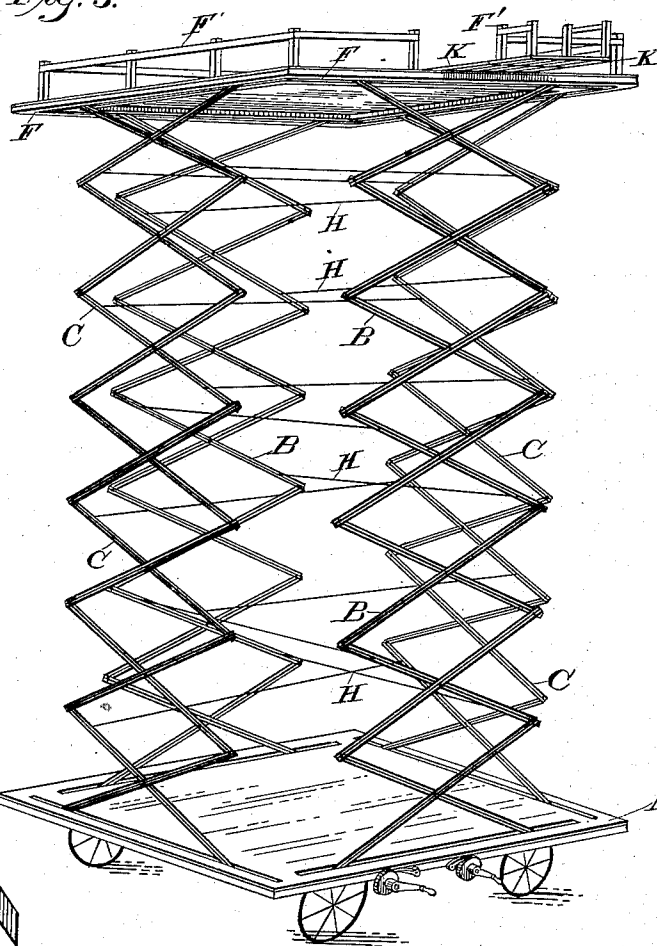


Fig. 4.

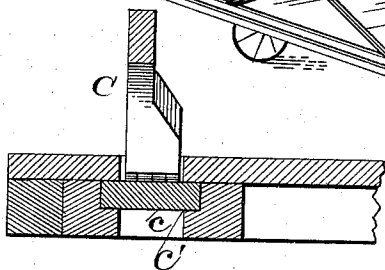
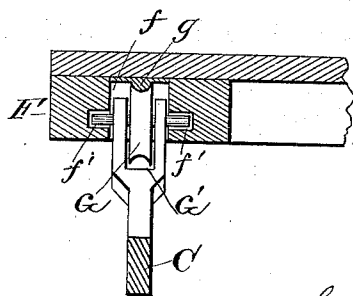


Fig. 5.



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UNITED STATES PATENT OFFICE.

CONRAD SCHRADER AND FRIEDRICH W. KITTLER, OF MILWAUKEE, WIS.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 317,862, dated May 12, 1885.

Application filed March 17, 1885. (No model.)

To all whom it may concern:

Be it known that we, CONRAD SCHRADER and FRIEDRICH W. KITTLER, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Fire-Escapes; and we do hereby declare that the following is a full, clear, and exact description thereof.

Our invention relates to fire-escapes, and will be fully described hereinafter.

In the drawings, Figure 1 is an isometric perspective view of our device when closed. Fig. 2 is a bottom view of the lower platform of our device; and Fig. 3 is an isometric perspective view of our device partly extended; and Figs. 4 and 5 are details.

A is the lower platform, which is mounted on trucks or wheels.

C are lazy-tongs elevators, the lower legs of which are hinged to blocks *c*, that slide in ways *c'* in each end of the truck or lower platform, and the two blocks *c* at each end are connected on their under side by cables or chains *d* that cross each other and pass around sheaves each to a drum, D, on a shaft, D', the outer ends of which latter are provided with cranks *d'* and ratchets *d''* and pawls *d'''*, as shown in Fig. 2.

B are the side lazy-tongs, the lower members of which are hinged to bars *b*, that slide in ways similar to those occupied by the blocks *c*, and have ratchet-teeth *a* on their under side to engage with cog-wheels *b'* on shafts D', and thus the lower members of the four lazy-tongs

are connected so that they may be drawn together by means of the shafts D', and of course as this is done the entire structure will be extended. The lower sills of the upper platform, F, are grooved as at *f f'*, as shown, and the roof of groove *f* is ribbed, as at *g*, to receive a sheave, G, in the bifurcated upper end, G', of each of the upper members of the lazy-tongs, while the ends of the axles upon which the sheaves G turn project into the grooves *f'*. Suitable braces, H, connect the four lazy-tongs and bind the structure together.

The platform F has a railing, F', about it, and this railing is provided at proper points with gates K, which are hinged at the bottom, and when dropped serve as a staging or bridge between the burning building and the platform.

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

In a fire-escape, the combination of the sliding bars *b* and blocks *c* with the lazy-tongs, lower platform, shafts D', cog-wheels *b'*, and connections *d*, as set forth.

In testimony that we claim the foregoing we have hereunto set our hands, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

CONRAD SCHRADER.

FRIEDRICH W. KITTLER.

Witnesses:

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