

(No Model.)

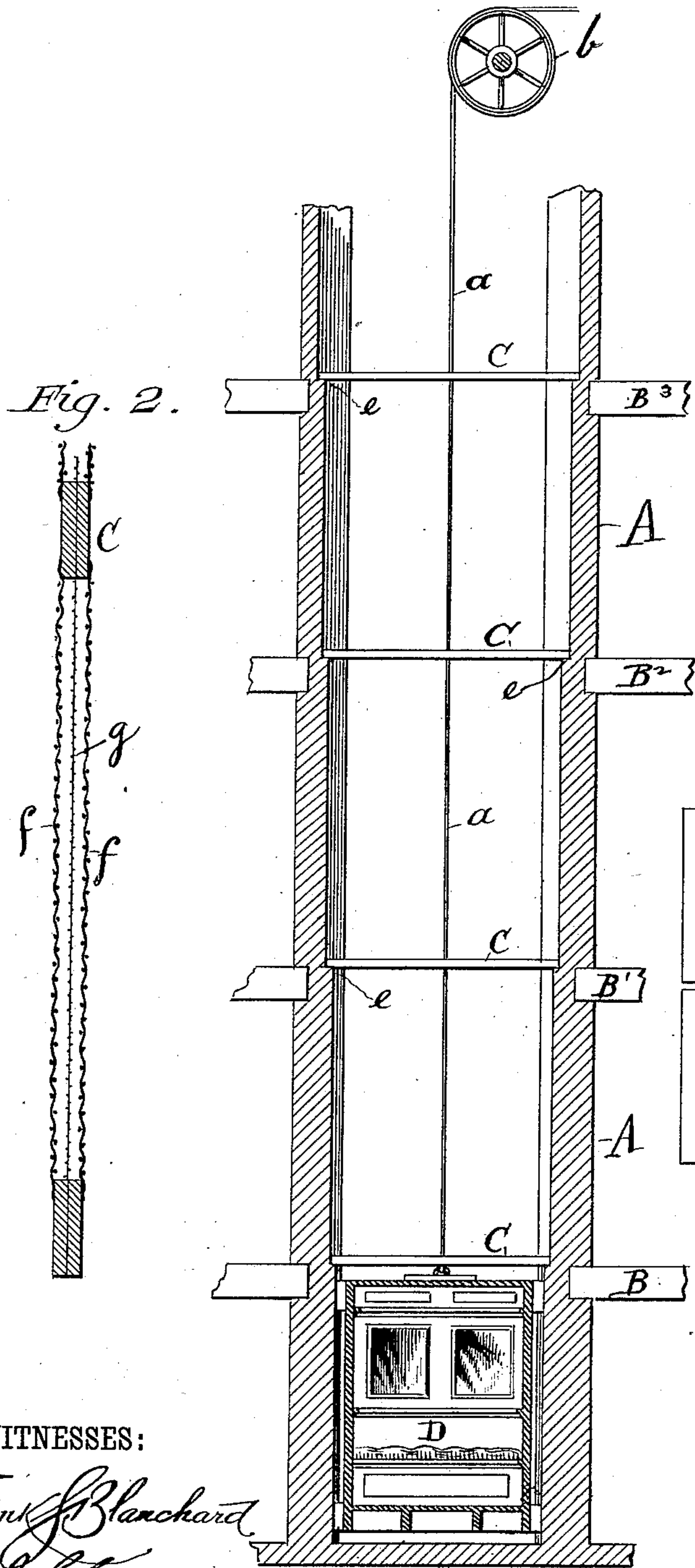
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SAFETY ATTACHMENT FOR ELEVATORS.

No. 296,883.

Patented Apr. 15, 1884.

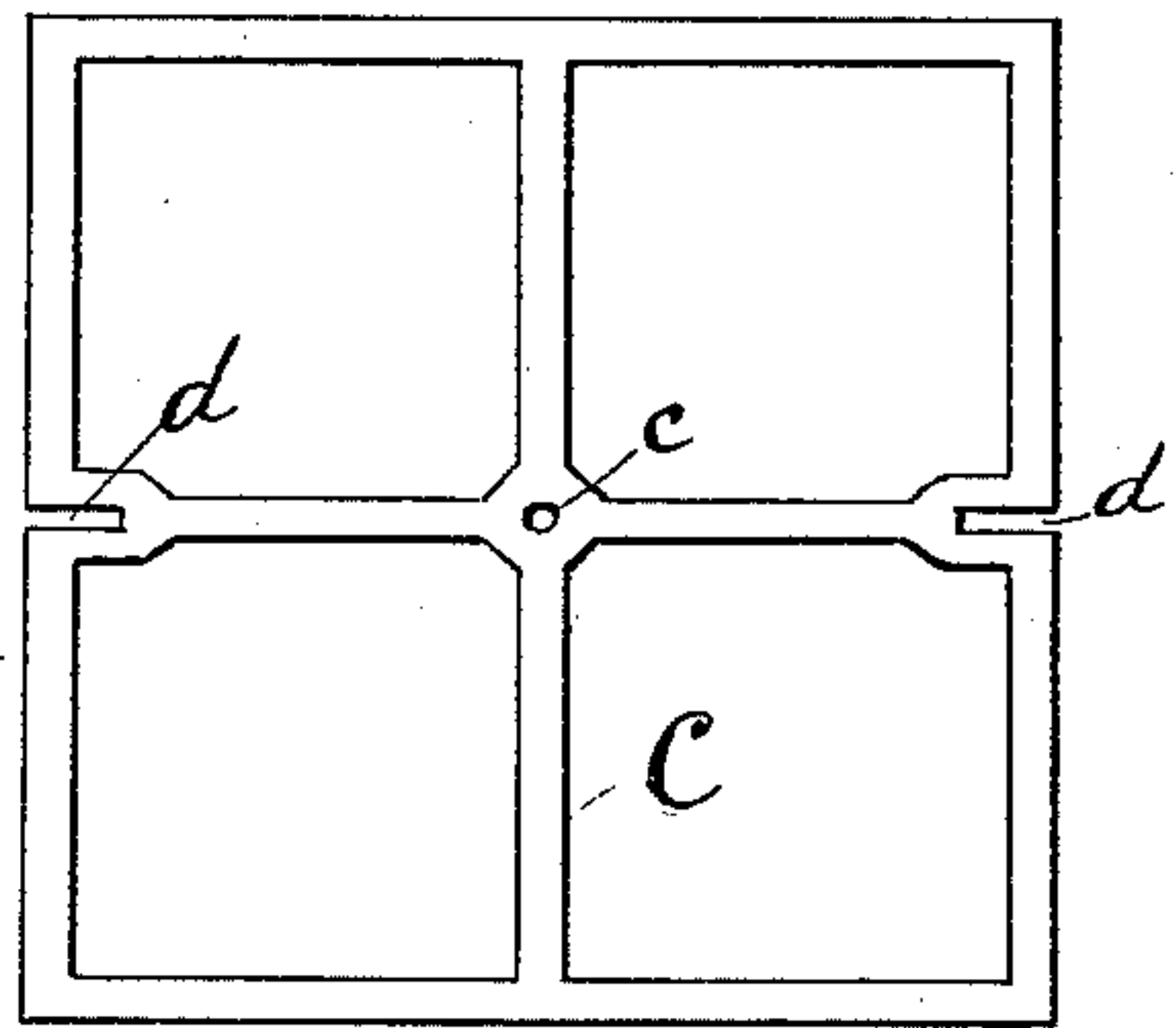
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## SAFETY ATTACHMENT FOR ELEVATORS.

SPECIFICATION forming part of Letters Patent No. 296,883, dated April 15, 1884.

Application filed January 23, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, RUDOLF SEIFFERT, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Safety Attachments to Elevators, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improved elevator attachment. The object it has in view is to provide an elevator-shaft with an attachment which, in case of fire, will effectually prevent the rise of flames from one story to another up through such shaft, and which attachment will prevent persons from falling down the shaft; and to the accomplishment of the above the invention consists of the novel devices and combination of devices, as will be described and claimed.

Reference will be made to the accompanying drawings, in which Figure 1 is a sectional view of an elevator-shaft; Fig. 2, a section through a screen employed in my construction, and Fig. 3 a plan view of the screen-carrying frame.

Like letters refer to like parts in each view.

A represents the elevator-shaft; B, B', &c., the different floors or landings, and D the elevator. Elevator D is raised and lowered in any of the well-known ways by rope *a*, passing over pulley *b*, as shown, said rope being secured to the elevator at the center of the top thereof. Rope *a* passes through a central opening, *c*, formed in each of a series of frames, C. Frames C are preferably formed of some non-combustible material, and each of said frames is provided on two of its sides with slots *d*, adapted to surround the elevator-guide formed on each side of the shaft, so as to permit of the rise and fall of such frames. All of the frames C vary in size, and at each floor or landing there is provided an offset, *e*, adapted to support one of such frames when not acted upon by the elevator, as will be described. Each frame C carries two coarse wire screens, *f*, between which is interposed a finer screen, *g*, these screens being attached to the frames in any suitable manner.

The manner of utilizing my invention is as follows: The parts being constructed and arranged as hereinbefore described, and the elevator at the ground floor, as shown in drawings, at each landing above a frame, C, provided with the screens described, will rest upon the offset provided therefor, whereby the rise of the flames up the shaft is prevented. As the elevator is raised, it contacts with the several screens in succession, whereby said screens are raised and do not retard the upward motion of the elevator. As the elevator returns, the screens which rest thereon are carried down until the top screen, which is arranged to rest upon the top offsets, reaches that point where it remains. As the elevator continues to descend, a screen is left at each landing until they all occupy the positions first described. In addition to preventing the rise of flames up the shaft, these screens perform another function—viz., they serve as safety attachments. By their use the shaft is divided into as many sections as there are stories, and when, by accident or carelessness, the door leading from the shaft on any floor is left open, it becomes impossible for any one passing there through to fall down the shaft.

In place of the wire screens described, solid metal sheets or plates may be used; but this arrangement is not as advantageous where perfect ventilation is desired.

I do not wish to confine myself to the exact construction and arrangement of the parts described, as the same may be varied without departing from the invention.

What I claim is—

In an elevator-shaft provided with offsets, as described, the combination of elevator D and frames C, of different dimensions, and provided with screens of coarse and fine wire, as described and shown.

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

RUDOLF SEIFFERT.

Witnesses:

M. J. CLAGETT,  
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