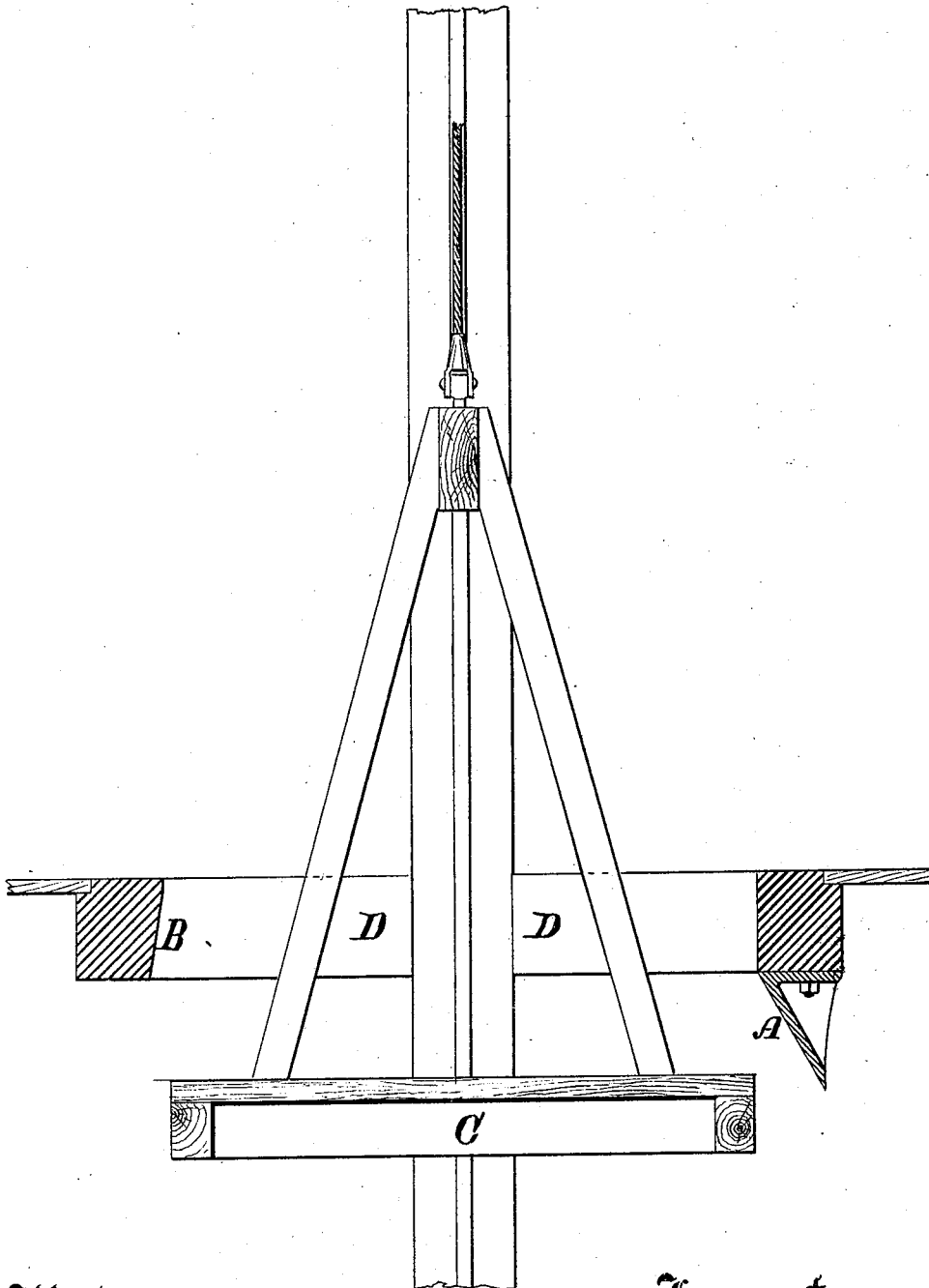


C. M. DALSEN.
Hatchways.

No. 167,993.

Patented Sept. 21, 1875.



Witnesses:
John Gooding
William Parent.

Inventor:
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by his atty
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UNITED STATES PATENT OFFICE.

CHARLES M. DALSEN, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN HATCHWAYS.

Specification forming part of Letters Patent No. **167,993**, dated September 21, 1875; application filed September 4, 1875.

To all whom it may concern:

Be it known that I, CHARLES M. DALSEN, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Hatchways; and I do hereby declare the following to be a full, clear, and precise description of the same, reference being had to the accompanying drawing which forms part of this specification, and is a side view of my safety-hatchway.

My invention relates to hatchways and elevators used in mercantile establishments; and has for its object the prevention of those accidents which happen so constantly from carelessness and dangerous construction. It consists in attaching to all beams, rafters, girders, or joists which face upon the passage-way of the elevator and come in close contact with the same in its ascent and descent, of an angled plane or surface of wood, metal, or other substance, so adjusted in its inclination that, whereas under the present system an absolute breaking would result to any substance becoming caught between the elevator and the hatch, now, by the application of this inclined plane, any substance projecting beyond the elevator is struck upon the inclined plane and driven gradually inward upon the floor of the elevator as the same ascends. It consists, further, in constructing the hatchways themselves obliquely, instead of attaching a plane, when the invention is applied to a building in course

of erection. It will then be plainly manifest that my device is equally applicable to old and new buildings. When applied to old the plane may be adjusted and arranged as shown in the drawing at A; but when applied to new, as at B.

The constant danger to life and limb is greatly lessened, because, if a limb be projecting, it is struck by the plane and driven gradually out of danger, when the contact with the limb itself does not give sufficient warning.

In the drawing, C represents the elevator and D the hatch, my improvement being represented by A and B.

I do not limit myself to any particular angle or dimension of plane, but contemplate adapting it as circumstances may suggest.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

A hatchway whose sides consist of planes inclined to the line of ascent of the elevator, which sides are either constructed in the hatchway when new or attached to it, when old, substantially in the manner and for the purpose specified.

CHAS. M. DALSEN.

Witnesses:

J. BONSALE TAYLOR,
C. SOLTHALLE.