(No Model.)

E. WILSON.

DUST DEFLECTOR.

No. 358,098. Patented Feb. 22, 1887.

Fig. 2.

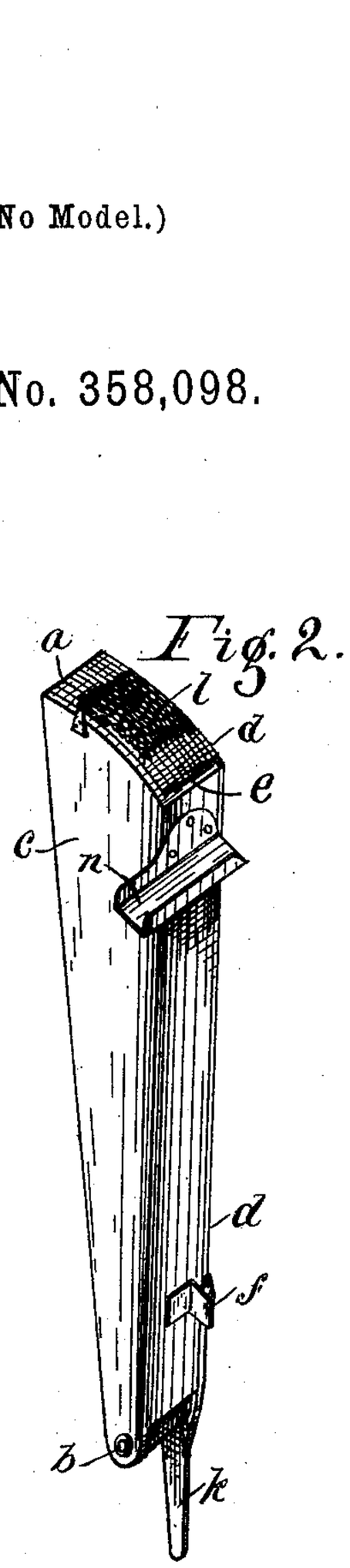
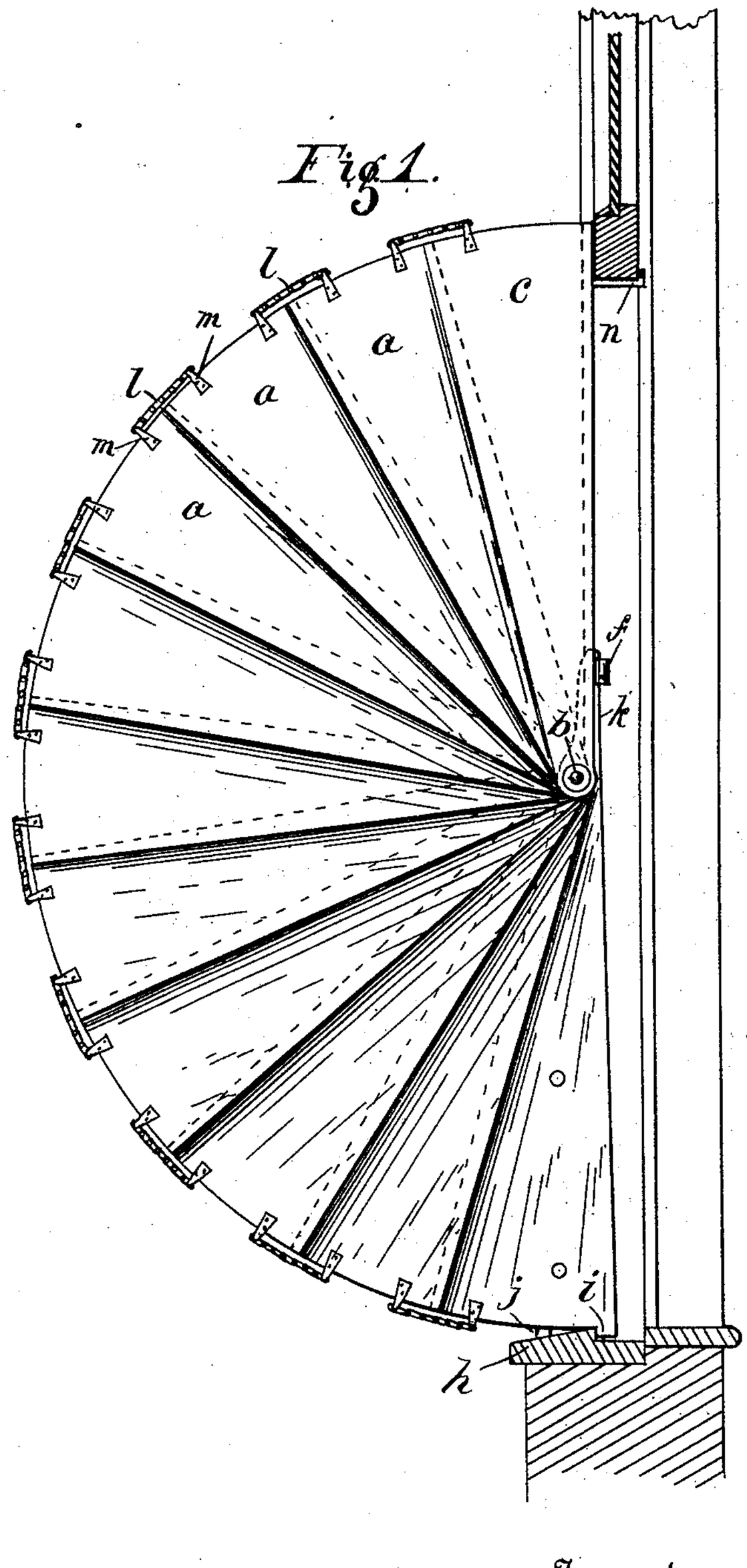


Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

ELIZABETH WILSON, OF KOKOMO, INDIANA.

DUST-DEFLECTOR.

SPECIFICATION forming part of Letters Patent No. 358,098, dated February 22, 1887.

Application filed October 4, 1886. Serial No. 215,246. (No model.)

To all whom it may concern:

Be it known that I, ELIZABETH WILSON, a citizen of the United States, residing at Kokomo, in the county of Howard and State of Indiana, have invented a new and useful Improvement in Dust-Deflectors, of which the following is a specification.

My invention relates to an improved dust-deflector adapted to be secured to the frames of car-windows when the windows are open, for the purpose of preventing smoke and cinders from the engine from entering the car.

The object of my improvement is to provide a light screen which shall be adapted to be secured in the frame of a car-window in a position to deflect smoke and cinders from entering the open window, and which shall be foldable into a small space, so that it may be conveniently carried by a person traveling on railroads.

The accompanying drawings illustrate my invention. Figure 1 is an elevation showing the deflector when extended and secured in position. Fig. 2 is a perspective view of the deflector when folded.

The deflector is principally formed of a series of thin triangular plates, *a a*, of wood or metal, pivoted together at their smaller ends, as at *b*, in the manner of an ordinary fan. Said plates *a* are inclosed when folded together between two similar plates, *c* and *d*, which are also mounted on the pivot *b*. Plate *c* is provided with a flange, *e*, of sufficient width to receive and cover the edges of the plates *a*, and with a spring-catch, *f*. Plate *d* is adapted at its outer end to engage the window-sill *h* either by means of a projecting portion, *i*, or short projecting pins *j j*. For the purpose of securing the plates in their extended position the narrow end of plate *d* is provided with an extension, *k*, which engages the spring-catch *f* when the plates are extended, as in Fig. 1. The plates *a*, *c*, and *d* are flexibly connected, so as to slightly overlap when fully extended, by short chains *l l*, attached at opposite ends to clips *m m*, secured, respectively, to adjoining plates.

For the purpose of holding the deflector in position when extended and substantially at a right angle to the window, a clip, *n*, adapted to receive the lower edge of the sash, is secured to flange *e* a short distance from the outer end.

In operation, the deflector, being extended as in Fig. 1, is placed against the side of the window-frame, toward the forward end of the car, at right angles to the side of the car and beneath the raised window-sash, the outer end of plate *d* engaging the window-sill and the lower edge of the sash resting in clip *n*. The device is thus firmly held in position, and the smoke and cinders striking it are prevented from entering the car through the window.

When not in use, the device is folded in a small compass, as shown in Fig. 2, in which shape it is easily carried in a hand-satchel.

In case it is desirable to make the device a permanent fixture on the car, it may be secured to the outside jamb of the window by screws passing through suitable holes, as at *o* in plate *d*, and it will then fold within the jamb when not in use.

I claim as my invention—

In a dust-deflector, the combination of plate *c*, having flange *e*, catch *f*, plate *d*, having extension *k*, and a series of triangular plates, *a*, pivoted between said plates *c* and *d*, arranged to be inclosed thereby, and having their outer ends flexibly secured together by chains or cords, and means, substantially as shown and described, for securing the deflector in a car-window, as and for the purpose specified.

ELIZABETH WILSON.

Witnesses:
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