

No. 752,796.

PATENTED FEB. 23, 1904.

B. NIBLACK.
DUST GUARD FOR CAR WINDOWS.

APPLICATION FILED AUG. 17, 1903.

NO MODEL.

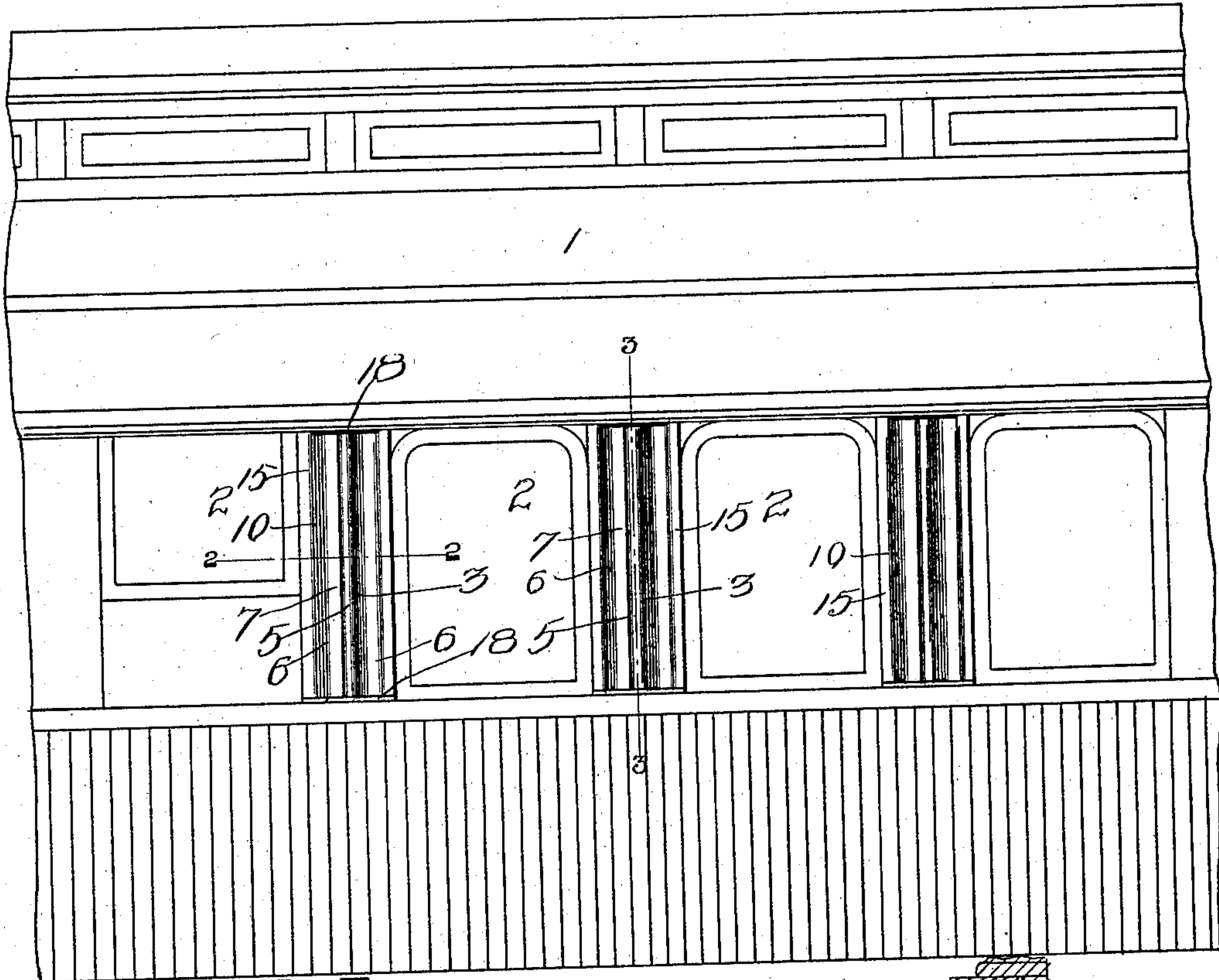


Fig. 1.

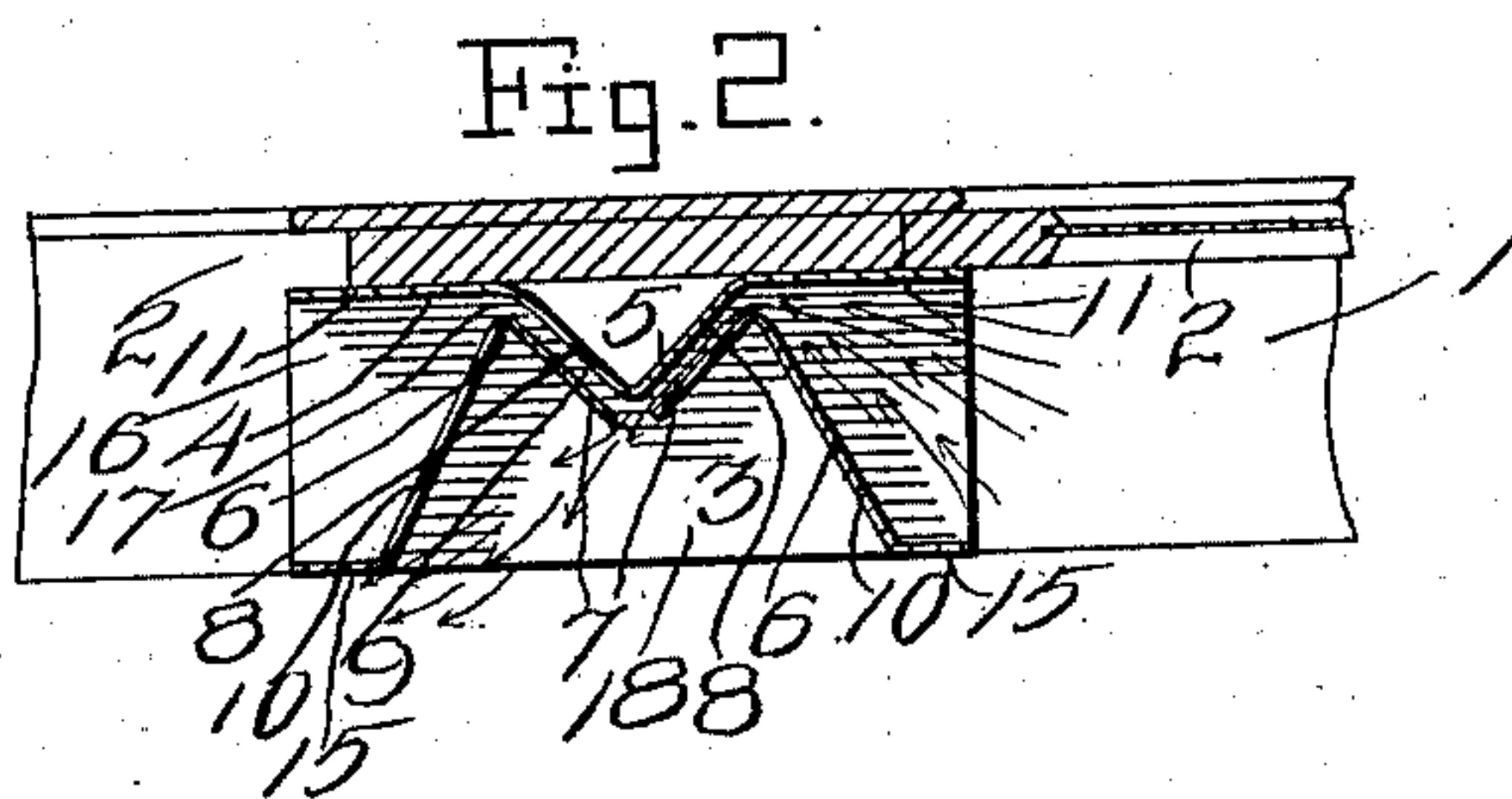


Fig. 2.

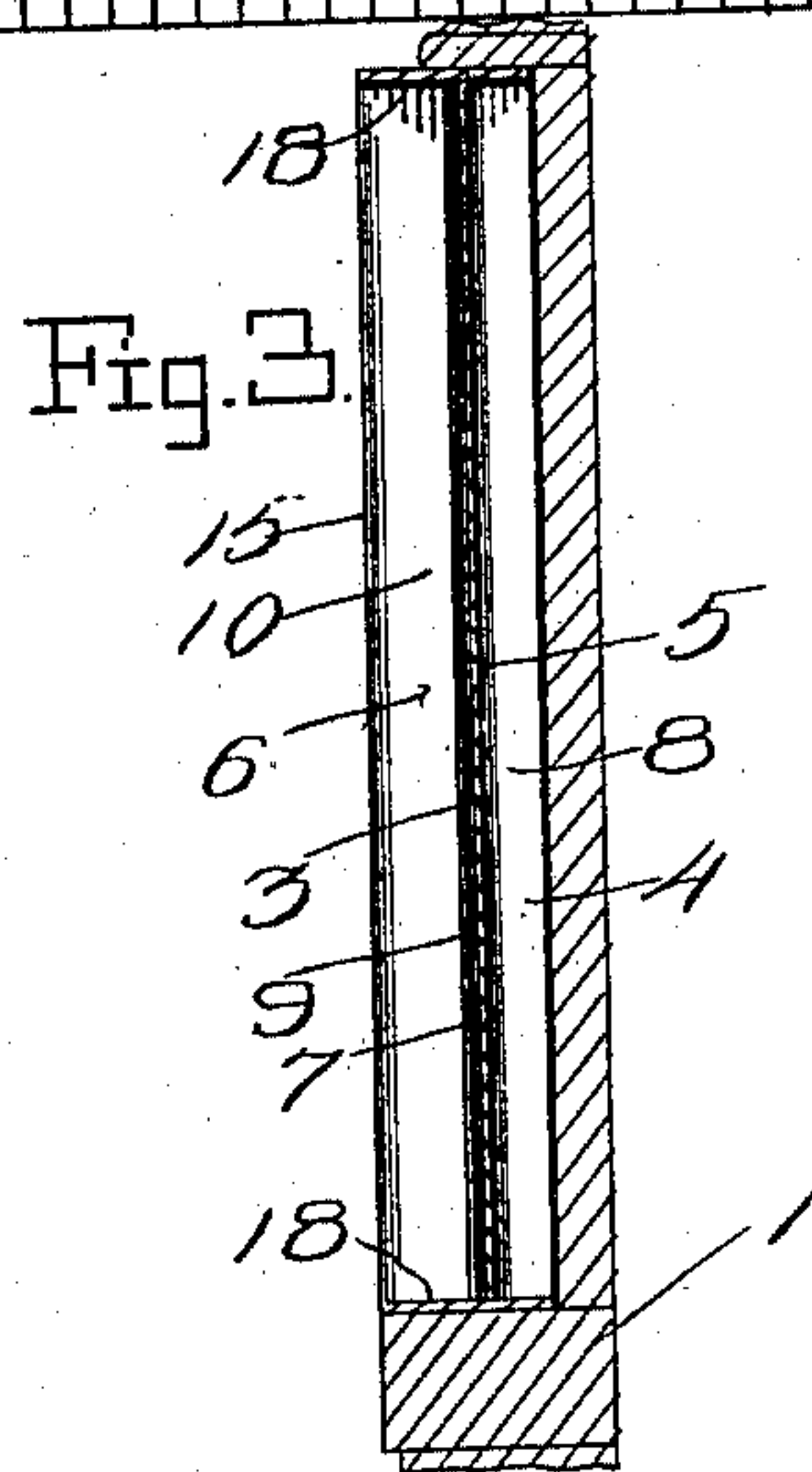


Fig. 3.

Inventor

Witnesses

C. H. Reichenbach.

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By

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Attorney.

UNITED STATES PATENT OFFICE.

BOOTHE NIBLACK, OF VIRGIL, GEORGIA.

DUST-GUARD FOR CAR-WINDOWS.

SPECIFICATION forming part of Letters Patent No. 752,796, dated February 23, 1904

Application filed August 17, 1903. Serial No. 169,769. (No model.)

To all whom it may concern:

Be it known that I, BOOTHE NIBLACK, a citizen of the United States, residing at Virgil, in the county of Jackson and State of Georgia, have invented certain new and useful Improvements in Dust-Guards for Car-Windows; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in dust, smoke, and wind guards for windows, doors, or other openings in railroad-cars and the like.

The invention consists in providing means for creating drafts or currents of air and deflecting the same past the open windows or doors to prevent dust, cinders, smoke, &c., being blown into the car.

The object of my invention is to provide a device of this character which is simple and durable in construction, comparatively inexpensive of production, and very effective for the purpose intended.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully explained and defined in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation of a portion of the body of a car, showing the application of my invention thereto. Fig. 2 is a horizontal sectional view through one side of the same, taken on the line 2 2 of Fig. 1; and Fig. 3 is a vertical transverse sectional view taken on the line 3 3 of Fig. 1.

Referring to the drawings by numerals, 1 denotes a portion of the outer side of a car-body which is provided with windows 2, between which my improved guards or shields 3 are located. Said guards comprise base-plates 4, which are secured to the outer side walls of the car between the windows and which are formed at their centers with vertically-disposed V-shaped ribs 5. Spaced from these base-plates on each side of these central ribs are V-shaped deflector-plates 6, the narrow walls 7 of which are parallel to the sides 8 of each of the ribs 5 and form spaces 9 be-

tween them. The broad walls 10 of said deflector-plates project outwardly at an angle from the outer or side portions 11 of the base-plate and have their outer edges bent parallel to the base-plate 4, as shown at 15, in order to form a space 16, having an inner funnel-shaped portion 17, which communicates with the inner end of the space 9. The deflector-plates may be spaced from and secured to the base-plates in any desired manner; but I preferably provide upper and lower longitudinal strips or plates 18, which are secured at right angles to the top and bottom edges of the base-plates and between which the deflector-plates are secured. These strips may extend the entire length of the car, and it will be seen that the upper one will prevent soot, dust, and dirt from the roof of the car dropping into the spaces 9, 16, and 17 and upon the window-sills of the car.

The operation of my invention will be readily understood upon reference to the accompanying drawings. When the car moves in either direction, the broad end of the spaces 16 and 17 will take in air and convey the same into the spaces 9, which will deflect it outwardly away from the windows, as shown by the arrows in Fig. 2. The drafts or currents of air thus created will prevent any smoke, soot, dust, &c., from being blown into the open windows and will at the same time tend to draw the air from within the car, thus aiding in the ventilation of the same.

While I have described and illustrated my invention as being secured to the outside of a car, it will be understood that the same may be built into the wall between the windows, and it will be further understood that the invention may be applied to doors, skylights, and other openings as well as to windows.

Instead of making the device double, as previously described, and shown in the drawings, I may make the same single—that is, I may provide simply one deflector-plate 6 to coact with each base-plate 4—and thus the device will be operative in but one direction. When the devices are made single, they are so arranged that all on one half the car will deflect the air in one direction and those on the other half will deflect in the opposite direction, so

that when the car moves in either direction the current of air created by the line of devices on the forward half of the car will be sufficient to blow past the rear half of the car.

5 Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

10 From the foregoing description the construction, operation, and advantages of this invention will be readily understood, it is thought, without requiring a more extended explanation.

15 Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

20 1. A guard of the character described, comprising a base-plate provided with an angular rib, and angular deflector-plates spaced from said base-plate and coacting with the same to form flaring inlet-spaces and deflecting outlet-spaces, substantially as described.

2. A guard of the character described, com-

prising a base-plate formed with a central V- 25 shaped rib, end strips secured to said base-plate, and V-shaped deflector-plates spaced from the base-plates by said end strips and co- 30 acting with said base-plates to form flaring inlet-spaces and deflecting outlet-spaces, substantially as described.

3. In combination with a car or the like having a series of windows, of guards secured between the same and comprising base-plates 35 having central V-shaped ribs, strips uniting the ends of said base-plates, and V-shaped deflector-plates spaced from the base-plates by said end strips and adapted to create currents of air and deflect the same past said windows, 40 substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

B. NIBLACK.

Witnesses:

J. W. PEPPER,
J. W. JACKSON.