

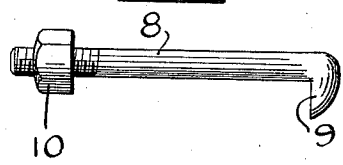
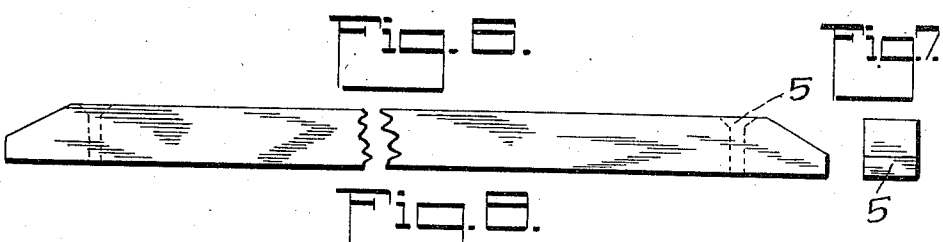
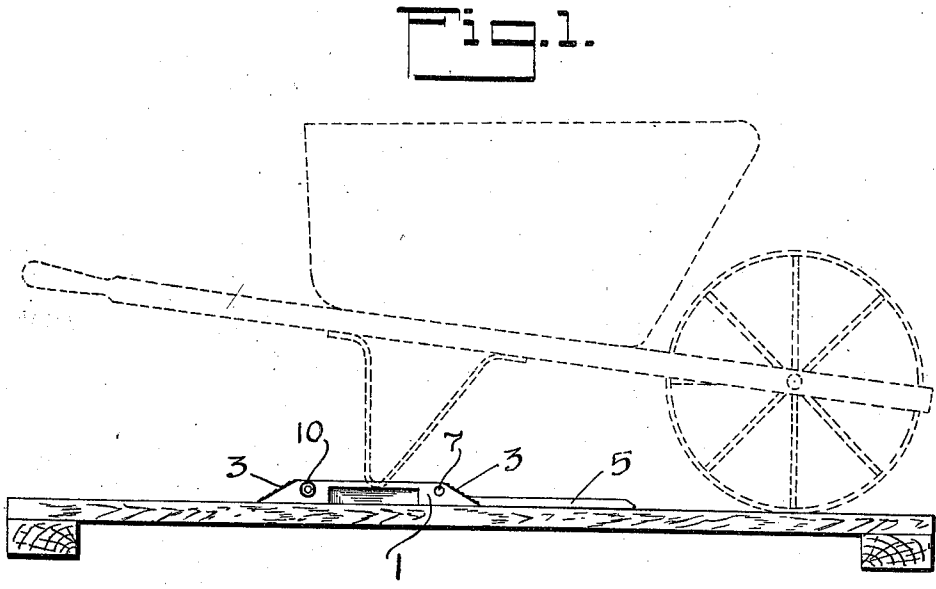
P. SHEEHAN.
SAFETY GUIDE.

APPLICATION FILED MAR. 6, 1911.

1,001,898.

Patented Aug. 29, 1911.

2 SHEETS—SHEET 1.



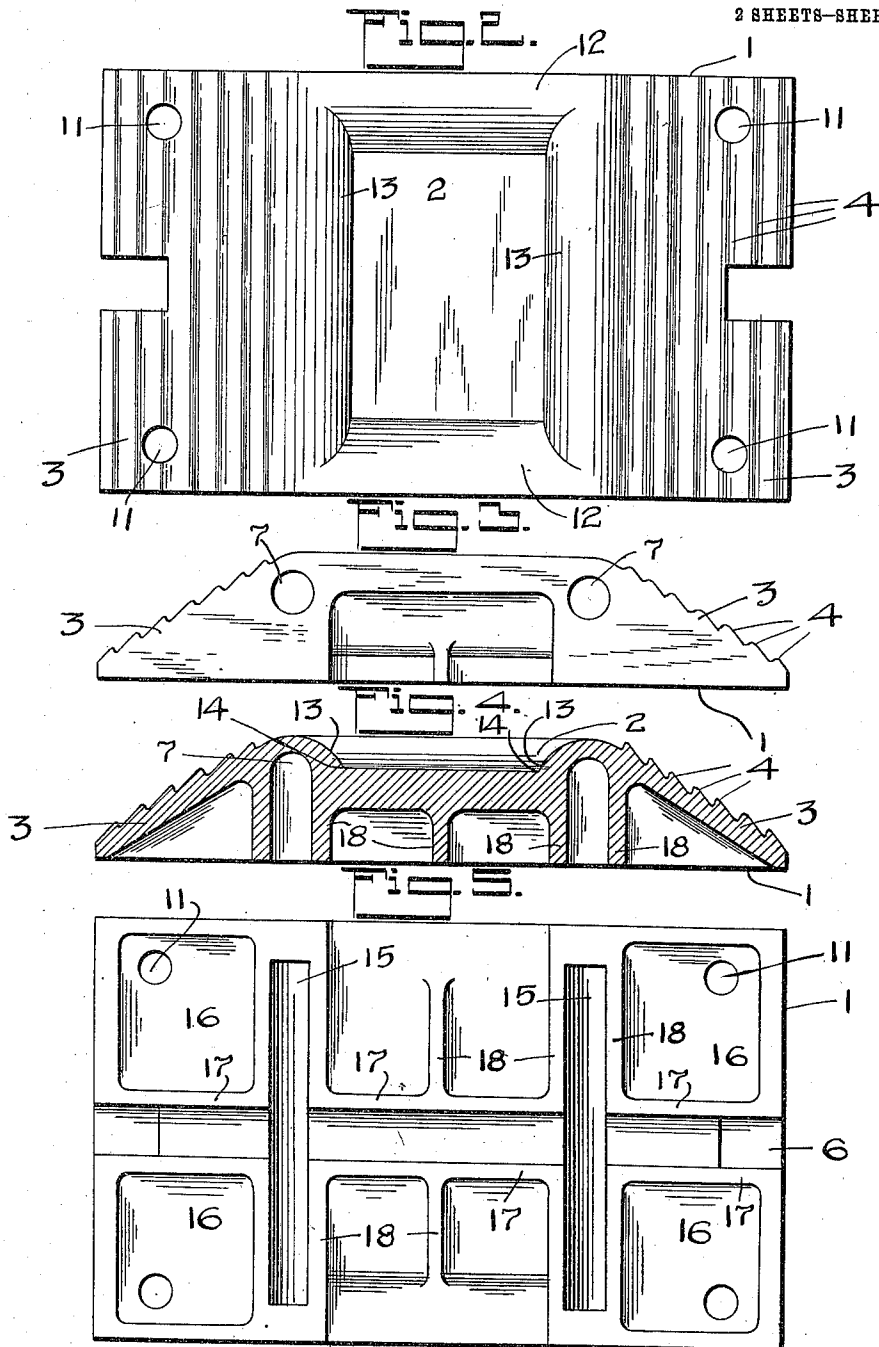
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2 SHEETS—SHEET 2.



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SAFETY-GUIDE.

1,001,898.

Specification of Letters Patent. Patented Aug. 29, 1911.

Application filed March 6, 1911. Serial No. 612,489.

To all whom it may concern:

Be it known that I, PATRICK SHEEHAN, a citizen of the United States, residing at 316 East Ninetieth street, New York city, New York, have invented a new and useful Improvement in Safety-Guides, of which the following is a specification.

This invention relates to elevator appliances and has for its object the prevention of injury to employees and damage to property incident to the use of hoisting elevators in the erection of buildings.

In erecting a building it is the practice to carry the concrete, plaster and other materials in wheel-barrows, and the wheel-barrows are raised from the basement to the floor desired by a lift or elevator. This elevator is operated from a hoisting engine by signals, and quick action is required in depositing the wheel-barrows on the lift, giving the signal, and proceeding with the hoist. The elevator itself is necessarily compact, and it frequently happens that wheel-barrows are placed on the elevator platform or car so that the handles at the rear, or the wheel in front, projects over the edge of the elevator platform or car so that when the latter is raised the wheel-barrow or elevator or both are wrecked in passing a floor above, and the workmen are frequently injured as well. Various attempts have been made to overcome this evil and to provide some satisfactory means for preventing the over or under positioning of the wheel-barrow. But on account of the fact that the wheel-barrows are rolled onto and off the lift half the time from one side and half the time from the other in the course of erection of the building and the various floors thereof, it is obvious that no mere stop or wall forming part of the elevator can be used. It is further clear that the temporary character of the whole installation will not permit of any expensive attachments.

It is the purpose of my invention to provide what I term an improved safety guide and which is a device or attachment which will permit the proper positioning of wheel-

barrows on an elevator platform or car, which will permit the wheel-barrows to be rolled on or off in either direction, which will permit the wheel-barrows to be faced in either direction, which is very easy to attach, and which is cheap to construct and durable.

With the foregoing in view, the invention consists in the improved safety guide as hereinafter set forth.

In the drawings, Figure 1, illustrates in side elevation the use of a safety guide embodying the principles of my invention; Fig. 2, is a top plan view; Fig. 3, is a side elevation; Fig. 4, is a vertical section; Fig. 5, is a bottom plan view; Fig. 6 is a side view of the bar; Fig. 7, is an end view of the same; Fig. 8, illustrates a gib screw which may be employed with my invention.

The invention will include a metal casting or body having a hopper shaped pocket on the upper side and means by which the casting is attached to the floor of the elevator platform.

1 denotes broadly the casting as a whole, and 2 denotes the hopper shaped pocket on the upper side thereof. The construction of the pocket may vary somewhat in practice, but in the best constructions will include certain features or characteristics which I will later describe.

The casting has a considerably greater length than its widthwise dimension and the upper surface is inclined downward from the pocket toward either end by a comparatively long gradual incline so that the legs of the wheel-barrows tend to run naturally up the inclines and drop into the pockets, and further so that the workmen hastening across the car from either side will not trip over the safety guide. Also I prefer to roughen the surface of the incline so that it will constitute a foot-hold, and the best form is that illustrated in which a series of inclined teeth 4 pointed upward give the best protection against the foot of the workmen slipping down the incline and at the same time offer a minimum obstruction to the wheel-barrow legs riding

up the incline, or the foot of the workman likely to trip thereon.

The bottom of the casting is ribbed in the interests of strength and lightness. The form of the bottom also coöperates with a longitudinal adjustment which I provide, and by means of which the safety guide is equally adapted for use with wheel-barrows moved onto the lift from either side. Referring to Fig. 1, the outline of an ordinary wheel-barrow is shown in about the way it will be placed upon a lift. From this diagram it will be seen that the two legs of the wheel-barrow fall on a line somewhat back of a central plane so that if the wheel-barrow is pushed onto the elevator from the opposite side the legs will be as much on such other side of the central plane. The total difference in position amounts to perhaps 8 inches in ordinary practice. Accordingly I provide a means for adjusting my safety guide a sufficient distance to accommodate the above two positions of a wheel-barrow. In the best constructions embodying the invention, there will be provided a bar 5 of preferably square transverse section and having holes by which it is screwed to the floor of the lift. The underside of the safety guide is recessed with a groove 6 having a transverse section corresponding to that of the bar. Means will be provided for securing the safety guide to the bar in any position of longitudinal adjustment. Ordinarily there will be holes 7 cored laterally in the casting near each end thereof and extending over the bar so that gib screws 8 may be inserted in the cored holes with the hooked-over ends 9 engaging the bar 5.

10 denotes nuts by which the gib screws are tightened. The gib screws may be located in the holes on either side of the bar as is most convenient, and do not prevent the removal of the entire safety guide from the elevator platform when desired.

11 denotes screw holes by which the safety guide may be permanently attached to the floor of an elevator platform in case the longitudinal adjustment is not required.

I have already referred to the pockets 2 which have a width sufficient to accommodate any variation which exists in the separation of the legs of ordinary wheel-barrows and end walls sufficiently near together to prevent the wheel-barrow projecting over the edge of the elevator platform or car at either side. The lateral walls 12 of the pockets will be flat and inclined in the best constructions embodying the invention, and the end walls 13 will be curved so as to present a fairly sharp corner 14 at the bottom of the pocket at either end thereof, tending to resist accidental displacement of the wheel-barrow in a forward or backward

direction. But this rounded face will not impede an easy removal of the wheel-barrow provided the legs are slightly lifted out of the bottom of the pockets.

I have also referred to the ribbing of the casting in the interests of strength and lightness. In the approved construction the casting will have a bottom face as particularly shown in Fig. 5, with passages 15 grooved therein and recesses 16, and the middle or main portion of the casting will have a contour corresponding to the upper surface. There will however be strengthening ribs 17 and 18 in order to have the high degree of rigidity and strength which is required in such an appliance.

In operation a pair of bars 5 are screwed upon the floor of the elevator platform parallel to one another and separated a distance corresponding to the separation of the legs of a wheel-barrow. The castings 1 will then be tightened in place on the bars at one end or the other thereof according to the direction that the wheel-barrows are pushed onto the car. The legs tend to run up the incline from either side in an obvious manner when the wheel-barrow is pushed into place and further tend to drop naturally into the pockets 2. Under these circumstances the wheel-barrow is certain to be properly positioned and the workmen are relieved of the usual care and anxiety. When the wheel-barrow is to be removed, it is readily lifted out of the pockets and can be pushed or pulled off the car in either direction.

What I claim is:—

1. A safety guide comprising a body having a pocket on its upper side, said pocket having rounded end faces and inclined flat side faces, said body further having vertical side exterior walls and inclines at either end, and having screw holes at each end by which the body may be securely attached at each end to the floor of an elevator platform or car.

2. A safety guide comprising a body having a pocket on its upper side, ribbed inclines at either end, means affording a longitudinal adjustment, and means for locking the guide in any position of adjustment.

3. In a safety guide, the combination of a body having a pocket on its upper side and a longitudinal groove on its lower side, a bar fitting in said groove and adapted to be secured to the floor of an elevator platform, and screws tightened against said bar for fixing said body at any adjusted position on the bar.

4. In a safety guide, the combination of a body having a hopper shaped pocket on its upper side, said pocket having inclined flat side faces and rounded end faces, and further having a longitudinal groove on the

under side and ribbed inclined ends, a bar adapted to be secured to the floor of an elevator platform, and gib screws received in said body and engaging said bar, substantially as described.

5 In testimony whereof, I, have signed my name to this specification in the presence of

two subscribing witnesses, this 27th day of February 1911.

PATRICK SHEEHAN.

Witnesses:

ALFRED W. PROCTOR,
GRACE T. DIXON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."