M. T. BRADLEY.

SHOVEL FOOT REST.

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1,166,427.

Patented Jan. 4, 1916.

Fig. 1

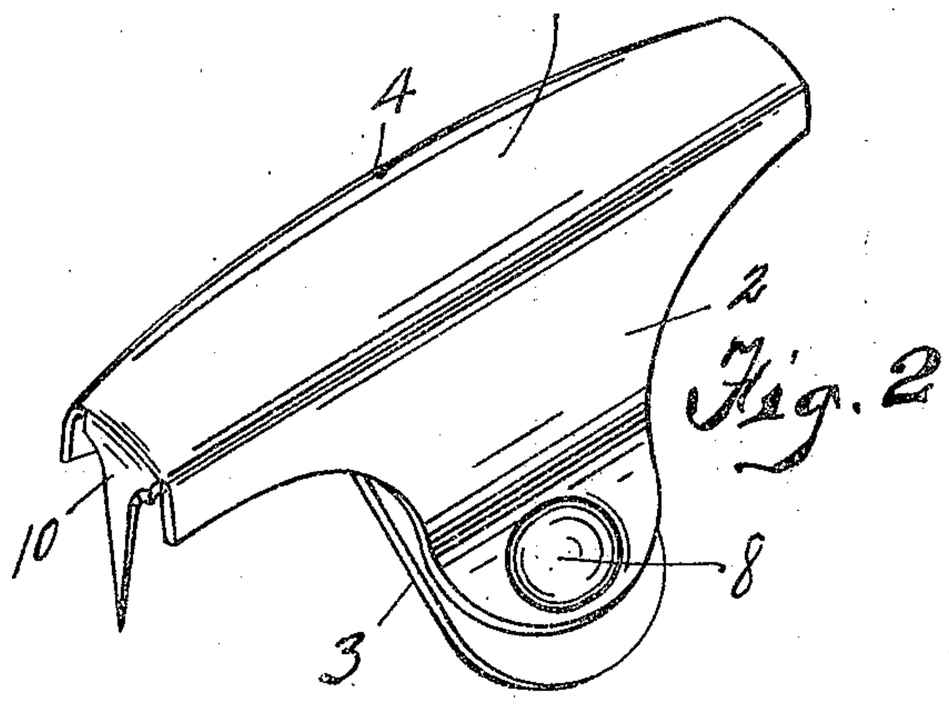

Fig. 2

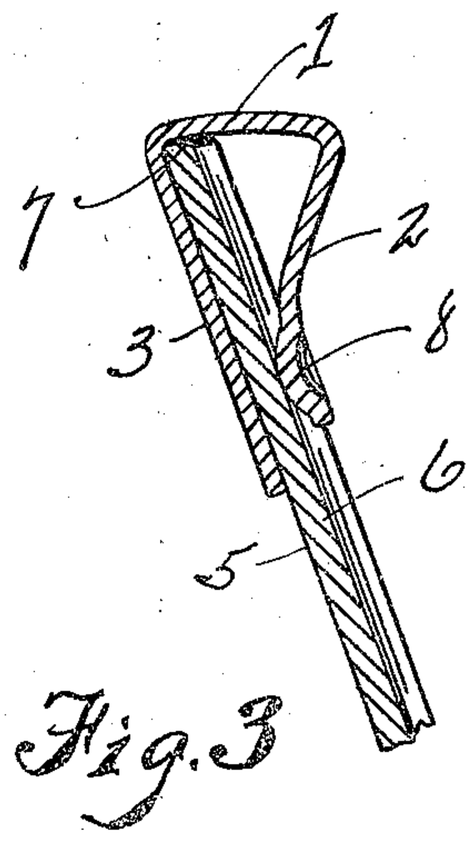

Fig. 3

Witnesses

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SHOVEL FOOT-REST.

1,166,427. Specification of Letters Patent. Patented Jan. 4, 1916.

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To all whom it may concern:

Be it known that I, MICHAEL T. BRADLEY, a citizen of the United States, residing at Spokane, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in Shovel Foot-Rests, of which the following is a specification.

This invention relates to improvements in foot rests for shovels of that character in which the rest is formed of a generally U-shaped strip of metal having an intermediate foot engaging portion and provided with front and rear flanges or attaching portions for engagement with the shovel blade.

The invention consists in providing a rear attaching portion for flat abutting relation against the rear face of the blade, the said guard body or rest having a resilient front attaching portion with an indented end presenting a convex boss for engagement with the front face of the shovel blade so as thereby to localize the area of contact and hold the guard body firmly in place on the blade irrespective of any lack of conformity and contour of the back attaching portion with respect to the contour of the blade.

Other objects and features of the invention will be more fully described in connection with the accompanying drawing and will be more particularly pointed out in and by the appended claim.

In the drawing: Figure 1 is a perspective view of one type of shovel illustrating the application thereto of one form of my invention. Fig. 2 is a perspective view of the foot-rest detached from the shovel. Fig. 3 is a sectional view on line 3—3 of Fig. 1.

Like characters of reference designate similar parts throughout the different figures of the drawing.

My improved foot-rest comprises a body of substantially channel formation provided with a relatively broad web 1 and front and rear flanges 2 and 3. The rear flange or attaching portion 3, and likewise the web 1, are arched transversely as indicated at 4, so that the rear attaching porton or flange 3 may abut in flat relation against the rear face 5 of the shovel blade 6. With the parts in the position shown in Fig. 3, it will be seen that in both length and breadth, the rest portion proper as indicated at 1, presents a relatively broad area to the foot of the operator. Furthermore, the rest 1 overhangs the blade, preferably forwardly thereof, in such a manner as to permit the rear attaching portion 3 to abut the rear face 5 in flat relation.

It is a distinct feature of this invention to provide a rest which is actually supported upon the upper edge 7, of the blade 6, so that the rest portion 1 will effectively be supported against tilting or teetering movement in the plane of the blade, by reason of the thrust applied by the operator.

It is also a feature of the invention to form the rest of resilient material, or in some cases to temper the attaching portion 2 so that the spring action of the latter will hold the rest securely in the position shown in Fig. 3. By means of this arrangement, the rest will not only be readily detached from the blade, but when attached thereto, it will be securely held in position.

As a means of effecting a maximum security of anchorage, I punch or otherwise indent the front attaching portion, as indicated at 8, forming a convex boss to engage the blade so as to localize the pressure area and thereby obtain a more secure engagement.

At the juncture of the handle socket 9, with the blade 6, there is usually a slight opening which I utilize in connection with means such as a prong 10, formed by bending a portion of the rest 1 downwardly. Insertion of the prong 10 into the opening will serve to hold the rest against displacement in either of two directions longitudinally of the upper edge 7.

My improved attachment is of such a character that the operator may readily detach it from the shovel and carry it in his pocket, to prevent loss, but in cases where equipment of this character is furnished to the operators, my improved attachment is designed and constructed to so effectively grip the blade as to prevent any ordinary thrust of usage from dislodging the rest from the blade.

It is believed that the advantages and utility of my invention will be fully understood from the foregoing description and while I have herein shown and described one specific form of my invention, I do not wish to be limited thereto except for such limitations as the claim may import.

I claim:

In a foot rest or guard for shovels, a guard

body having a top foot rest portion adapted to engage the upper edge of the shovel blade and having a rear attaching portion for flat abutting relation against the rear face of said scoop, said body having a resilient front attaching portion provided with an indented end presenting a convex boss for contact with the front face of the shovel to localize the area of contact and thereby hold the guard body firmly in place on the blade irrespective of lack of conformity in contour of the back attaching portion with respect to the contour of the blade, substantially as described.

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

MICHAEL T. BRADLEY.

Witnesses:
H. E. SMITH,
EDNA BRAYLES.