

UNITED STATES PATENT OFFICE.

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COMBINED LAWN-RAKE AND SNOW-SCOOP.

No. 827,542.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, RICHARD FRANKLIN LAWSON, a citizen of the United States, and a resident of Effingham, in the county of Effingham and State of Illinois, have invented certain new and useful Improvements in a Combined Lawn-Rake and Snow-Scoop, of which the following is a specification.

My invention is an improved implement especially designed for use in raking lawns and in shoveling snow and which may also be utilized for other purposes, comprising devices whereby to readily adjust the several parts of the implement to adapt it to any of said uses; and the invention consists in certain novel constructions and combinations of parts hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of the implement adjusted for use as a lawn-rake. Fig. 2 is a similar view showing the parts adjusted for use as a snow-scoop. Fig. 3 is a detail perspective view showing one corner of the body portion before the end of the back plate is turned alongside the rear edge of the side plate, and Fig. 4 is a detail perspective view of one corner of the complete body.

As shown, the implement comprises a body A, which may be of galvanized sheet-iron or other suitable material, and is formed with a base-plate A', a back plate A², and side plates A³, the back plate and side plates being of sufficient height to form a receptacle for the snow or cut grass, according to the use of the invention.

The body portion is preferably constructed from a single sheet of metal whose rear edge is folded upon itself in three thicknesses, as shown at B, and the said sheet of metal is slitted from both ends at C a distance equal to the height of the side plates A³, and the said side plates are turned up at a right angle to the base-plate A' and the back plate A² is also turned up at a corresponding angle to the base-plate, and the end wings or extensions D of the back plate beyond the side plates A³ are turned forwardly along the outer faces of the side plates and are riveted thereto at E, as clearly shown in the drawings. The back plate and side plates A³ are approximately the same height, and the wings D of the back plate thus form braces for the side plates and also a strong bearing for the outwardly-turned ends of the bail F, presently described, the strength of this bearing being increased by the threefold thickness of the upper edge

of the back plate and this folding of the back plate at its upper edge also affording sufficient strength and rigidity for the connection of the section of the hinge G with the back plate, as presently described.

It will be noticed that the side plates flare somewhat toward the front edge of the body portion, making the pan wider at the front than at the back, and ordinarily in practice I find it gives good results to make the pan or body portion about nineteen inches wide at the back and twenty inches wide at the front. The side plates are also doubled at their upper edges at A⁴, giving increased strength to the parts at such point.

The front edge of the base-plate A' is provided with a series of well-rounded teeth A⁵, forming it into practically a comb, which in operation will not disturb the roots of growing grass, but will pick up all loose grass, acorns, peach-seeds, or pebbles, or other foreign substances, leaving the lawn in good condition. At the same time the teeth will not clog like those of an ordinary rake even in the thickest or wet grass.

A handle H is connected by the hinge G with the upper edge of the top plate of the body A, so it can be swung to either of the positions shown in Figs. 1 and 2, and for securing it in such positions I employ a bail F having its end studs F' pivoted in the side plates A³ and in the folded portion of the wings D of the body portion and connected at its middle by the slide I and the clamp J in the form of a set-screw to the handle, the bail F being pivoted at its middle in the side plates I' of the slide I at one side of the handle H and the set-screw J being turned through the cross-bar of said slide at the opposite side from the crossing of the bail F, as will be understood from Figs. 1 and 2. To adjust the handle from one position to the other, it is only necessary to loosen the set-screw, swing the handle to the desired position, and again tighten the set-screw, when the implement is ready for use.

It will be found that the implement may also be used as a hoe, being especially useful on freshly-plowed ground, which it will level in good shape and more readily than an ordinary hoe or rake. The scoop or shovel will also be found useful for mixing mortar, the teeth or comb edge rendering it especially desirable for such purpose.

For cleaning stalls in stables or removing mud from street-crossings this implement

will be found superior to any other now in use for like purposes.

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

1. An implement substantially as described, comprising the body portion having a base-plate having its front edge toothed, the upturned side plates, the upturned back plate having its upper edge folded upon itself and its projecting ends or wings extending alongside the upturned side plates, the handle hinged to the folded upper edge of the back-plate, the bail pivoted at its ends to the side plates, and the folded upper edge of the projecting wings of the back plate, a slide movable along the handle and pivoted to the bail at the middle thereof, and a set-screw for securing the said slide in different adjustments upon the handle, substantially as set forth.

2. The combined rake and shovel or scoop, comprising a body portion having a base-plate, side plates, and back plate, a handle hinged to the back plate, a bail pivoted at its ends to the side plates, a slide connected with the bail and movable along the handle, and means for securing the slide in different

adjustments upon the handle, substantially as set forth.

3. An implement substantially as described, comprising the body portion having a bottom plate, side plates projecting upwardly therefrom, and a back plate projecting upwardly from the bottom plate and having its upper edge doubled upon itself, and projecting end wings bent upwardly alongside the side plates, substantially as set forth.

4. The combination of the body portion having a bottom plate, side plates, and a back plate, a handle hinged to the back plate, and means for securing the handle in different adjustments relative to the body portion, substantially as set forth.

5. The convertible shovel and scoop, comprising the body portion having a bottom plate, provided at its front edge with rounded teeth, the side plates, and back plate, the handle hinged to the back plate, and means for securing the handle in different adjustments relative to the body portion, substantially as set forth.

RICHARD FRANKLIN LAWSON.

Witnesses:

H. B. WEMSING,
B. G. ENSIGN.