No. 860,746. PATENTED JULY 23, 1907.

J. N. HOFFMAN.

FRAME FOR HOP SCOOPS.

APPLICATION FILED JAN. 2, 1907.

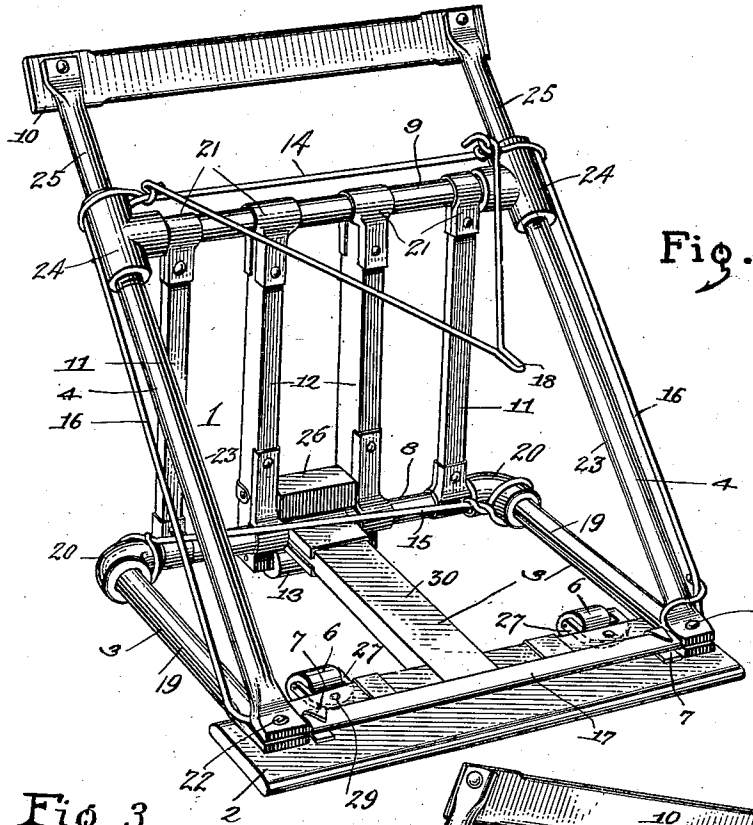
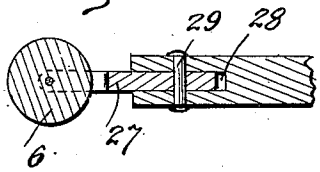


Fig. 2.

Fig. 3.



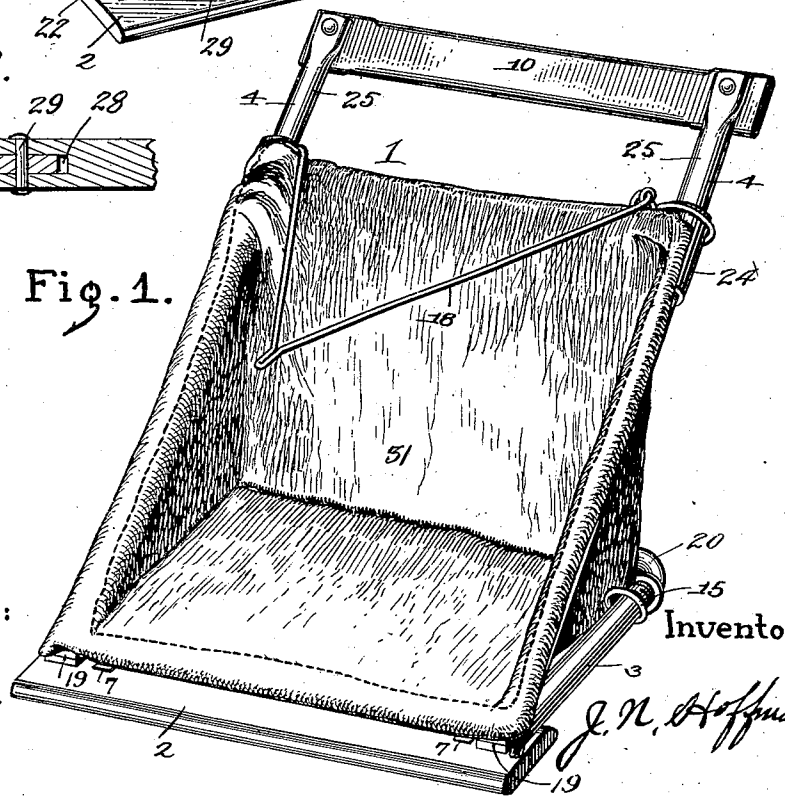


Fig. 1.

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UNITED STATES PATENT OFFICE.

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FRAME FOR HOP-SCOOPS.

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Application filed January 2, 1907. Serial No. 350,678.

To all whom it may concern:

Be it known that I, JOHN N. HOFFMAN, a citizen of the United States, residing at Forest Grove, in the county of Washington, State of Oregon, have invented a new and useful Frame for Hop-Scoops, of which the following is a specification.

My invention relates to improvements in scoops for picking up and conveying hops, or the like, and it consists in the features of novelty hereinafter described and claimed.

The object of the invention is to provide a hop scoop of simple, strong and durable construction and one which may be conveniently operated.

The above and other objects which will appear as the nature of the invention is better understood are accomplished by the improved construction illustrated in the accompanying drawings, in which

Figure 1 is a perspective view of the scoop, showing its covering in position; Fig. 2 is a similar view, with the covering removed; and Fig. 3 is a detail section, showing the manner in which the hangers or bearings for the front rollers are pivotally mounted to facilitate turning or guiding the scoop.

Referring to the drawings by numeral, 1 denotes the frame of the scoop which consists of a horizontal base section 3, an upwardly and rearwardly inclined top section 4 and a back section composed of upright bars 12 which unite the rear portions of the sections 3, 4. The base or bottom section 3 and the top section 4 are here shown as composed of sections of pipe, the bottom having two side pieces 19 provided with flattened forward ends and threaded rear ends which are screwed into elbows 20. The latter are connected by a rear cross piece 8 and to the flattened front ends of the pieces 19 is bolted or otherwise secured at 22 a flat cross bar 2 provided with a beveled longitudinal edge. The top section of the frame consists of pipes 23 having flattened lower ends secured by the bolts 22 upon the flattened ends of the pipes 19 and threaded upper ends which are screwed into branches of T-couplings 24. Screwed into the opposite branches of said couplings are pipes 25 which have their ends flattened and connected by a cross piece or handle 10. The inwardly projecting branches of the couplings 24 are united by a pipe 9. The upright bars 12 of the back section of the frame are secured to the pipes 8, 9 preferably by metal straps 21 which are bent around said pipes and have their ends bolted or otherwise secured to said bars. The frame is supported above the floor upon three rollers 6, 6, 13, the latter of which is comparatively long and arranged in the center of the rear end of the frame, its journals being mounted in suitable bearings in a block or support 26 arranged between the two central bars 12. The rollers 6 are arranged at the front of the frame and are suitably journaled in hangers or bearings 27 which are pivoted in the front cross bar 2 for swinging movement in a horizontal plane. These bearings or hangers 27, as clearly shown in Fig. 3, are in the form of flat plates having curved ends which are inserted in horizontal recesses 28 in the rear edge of the bar 2 and are pivoted therein by bolts, or the like, 29 passed vertically through them and the bar 2. The latter and the rear cross piece or pipe 8 is also connected by a centrally arranged longitudinal bar 30, as shown in Fig. 2.

The numeral 31 denotes a covering for the frame 1 preferably made of fabric. This covering may be removably attached to the frame in any suitable manner but as illustrated in the drawing it is held thereon by wires 14, 15 and 16 which are arranged upon the frame, as clearly shown in Fig. 2, said wires passing through hems in the covering 31. The front edge of the bottom of the covering is held down upon the beveled bar 2 by a strip or bar 17 which is engaged with hook shaped keeper plates 7 arranged upon the top of the bar 2, as seen in Fig. 2. The scoop may be pushed about by means of the bar 10 but to permit it to be pulled I provide the detachable V-shaped bail 18 which when in position extends forwardly from the rear upper portion of the top of the frame.

From the foregoing it will be observed that the scoop may be readily moved about upon the floor either by pulling the bail handle 18 or by pushing the handle bar 10. The rollers 6, 6, 13 permit the scoop to be easily moved and the pivots of the hangers of the front rollers 6 enable the device to be readily turned or moved in the arc of a circle.

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

1. A scoop comprising a frame having a bottom, an upwardly and rearwardly inclined top and a back uniting said bottom and top, a covering upon said frame, a rear supporting roller arranged centrally upon the bottom of the frame and front supporting and guiding rollers arranged upon the bottom of said frame and having their hangers pivoted for swinging movement in a horizontal plane.

2. A scoop comprising a frame having a bottom, an upwardly and rearwardly inclined top and a back uniting said bottom and top, a flat cross bar at the front end of the bottom of said frame, keepers upon said cross bar, a fabric covering arranged upon said frame and a strip engaged with said covering and said keepers.

3. A scoop comprising a frame having a cross bar at the front of its bottom, a flexible covering upon said frame, keepers upon said cross bar and a strip engaged with said covering and said keepers.

4. A scoop frame comprising a bottom composed of connected tubular members, a flat cross bar at the front of said bottom, an upwardly and rearwardly inclined top composed of united tubular members, a handle bar at the rear of said top, and upright bars uniting said bottom and top and forming a back.

5. A scoop comprising a frame having a bottom, an upwardly and rearwardly inclined top and a vertical back uniting said bottom and top, said back being composed of upright bars and said bottom and top being composed of connected pipe sections, a flat bar at the front of said

bottom, a handle at the rear of said top, a flexible covering upon said frame and supporting rollers upon the bottom of said frame.

6. A scoop frame comprising a bottom and a top each composed of united tubular members, the front ends of said top and bottom being flattened and engaged with each other, a cross bar connecting said ends and fastenings uniting said front ends and said cross bar.

7. A scoop frame comprising a bottom having side members and a rear member, elbows uniting said rear and side members, a top composed of side members and a cross member, T-couplings uniting said cross and side members of the top, a handle bar, members connecting the latter to said T-couplings, upright bars forming a back for the scoop, brackets uniting said upright bars to the cross member of the top and the rear member of the bottom and a front cross bar uniting the side members of the top and bottom.

8. A scoop frame comprising a top and a bottom, each composed of united tubular members, a back formed by upright cross bars and metal straps bent around the members of said top and bottom and having their parallel ends channeled to receive the ends of said upright bars between them, and fastenings for uniting said channeled ends of the straps to said upright bars.

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