W. J. DUNHAM.

IMPLEMENT HANDLE.

APPLICATION FILED MAY 22, 1912.

1,038,732. Patented Sept. 17, 1912.

Fig. 1.

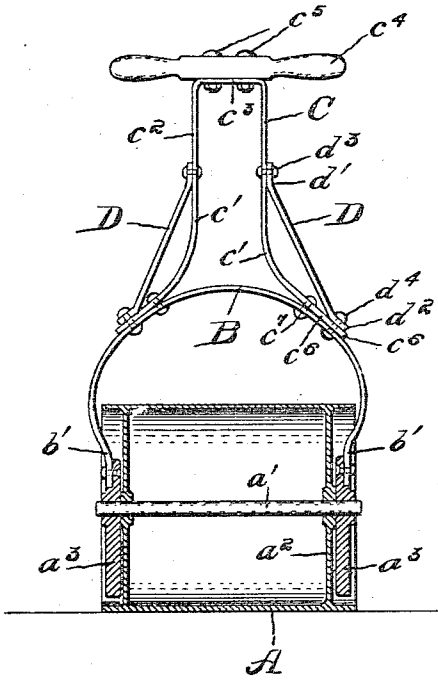
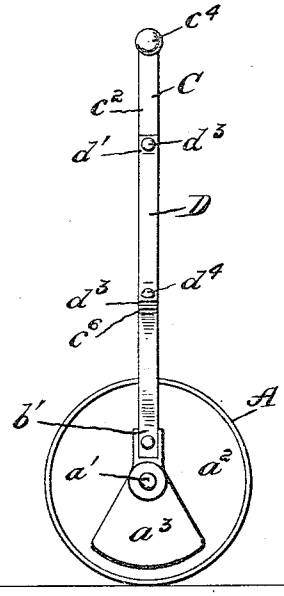


Fig. 2.



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IMPLEMENT-HANDLE.

1,038,732. Specification of Letters Patent. Patented Sept. 17, 1912.

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To all whom it may concern:

Be it known that I, WILEY J. DUNHAM, a citizen of the United States, residing at Berea, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Implement-Handles, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention has general reference to an implement handle while its more particular association is with several specific simplifying improvements upon the handle shown, described and claimed in the Letters Patent Number 967,349 issued to me August 16, 1910. It being feasible to attach handles of the herein considered character at only two points, often some distance apart; the powers of resistance to torsional strains attendant upon its use in turning or otherwise controlling the implement proper, proves the dominating factor of commercial value. With this in mind the stimulus associated with this inventive conception is attested by the following objects: First, the provision of a handle adapted to the inferred purpose, which will prove more efficacious in the fulfilment thereof. Second, a measurable saving in the stock required for its manufacture. Third, a reduction in the manufacturing expense by reason of its simplification and as a corollary a pronouncedly added facility of assemblage.

The said invention consists of means which are hereinafter described and particularly pointed out in the claims.

The annexed drawing and the following description set forth in detail certain means embodying my invention, the disclosed means, however, constituting but one of various mechanical forms in which the principle of my invention may be applied.

Figure I is a side elevation of a handle embodying my invention showing it attached to a lawn roller. Fig. II is an end elevation of the same.

Referring to the drawing in which like reference characters consistently designate like parts: By way of illustrating one conjunctive application of my invention, it will be seen in Fig. I attached to a lawn roller A. This roller embraces in its construction the axle a', drum a^2 and counterweighted attaching members proper a^3. These latter members are disposed as usual upon opposite ends of the axle and as indicated recessed with respect to the lateral annular edges of the drum.

The handle construction comprises a primary bail-shaped supporting member B the ends b' of which are secured each to an upper end of one of the counterweighted members a^3. The supporting member B is by preference formed of flat stock.

Mounted upon the supporting member, B is a forked or bifurcated extension member C. As implied this member has two arms each designated entir as c' and these are moreover substantially symmetrical relative to the median line of the implement. The bight c^2 of the extension member C is for a considerable distance of comparatively constricted U shape and to its flat interjacent section c^3 a common type of hand grip c^4 is fastened through the medium of the bolt and nut combinations c^5, clearly outlined in Fig. I. The two lower half sections of the arms c' are rather abruptly bent to diverge outwardly so that as a whole the arms are inwardly curved intermediately of their ends. The lowermost extremities c^6 then tangentially overlie the upper surface of the supporting member B. To best serve the purposes intended the extension member C is likewise of flat stock and of similar dimension throughout. Rivets c^7 affix the arms c' to the members B at the points indicated. Two mainly straight and also flat and otherwise correspondingly sized brace-members D extend between like intermediate points on the U shaped portion of the member C to its two points of contact with the member B and so as to overlie in turn the tangential extremities c^6. As thus positioned the brace-members D present an angle, advantageous as to function, to the curvature of the member B. Both the upper ends d' and the lower ends d^2 of the brace-members D, are slightly bent at an angle to present a more effective surface contact. The upper ends d' are secured at the intermediate points stated through the agency of suitable rivets d^3. The lower ends d^2 are simultaneously secured by rivets d^4 both to the extension member C and the supporting member B through readily registering openings on the line of contact at the point of superposition of the three. In this manner

to recount the almost manifest advantages, a general economy of manufacture; including saving of material, operations to be performed thereon, and resultant precision of attachment; is coincident with an increased rigidity and hence increased utility.

Having now fully described my invention, what I claim and desire to secure by Letters Patent is:

1. An implement handle comprising the combination of a primary supporting member, a looped extension member, said extension member being furthermore bifurcated and having its extremities overlying the side portions of said supporting member, a pair of brace members having ends affixed to said extension member, the other ends of said brace members overlying said extremities, and means for simultaneously securing each brace member and extremity of said extension member to said supporting member.

2. An implement handle comprising the combination of a primary arched supporting member, an elongated looped extension member, said extension member being furthermore bifurcated and having its free extremities divergent and overlying opposite side portions of said supporting member, a pair of mainly straight brace members having ends affixed respectively to an intermediate portion of said extension member, the other ends of said brace members overlying said divergent extremities at their points of contact with said arched supporting member, and means including rivets and registering openings for simultaneously securing each brace member and extremity of said extension member to the common point of intersection with said supporting member.

3. An implement handle comprising the combination of a bail-shaped supporting member, a forked extension member having a pair of arms, said arms being furthermore inwardly curved and tangentially overlying opposite sides of said supporting member, and a pair of mainly straight brace-members outwardly disposed with reference to said arms and having one pair of ends secured to an intermediary portion of said arms, the other ends of said brace-members overlying the tangential portions of said arms, and means simultaneously securing said arms and brace-members to said supporting member.

Signed by me, this 20th day of May, 1912.

WILEY JULIUS DUNHAM.

Attested by—

WM. H. AMES,

JOHN C. MARTING.