

No. 657,289.

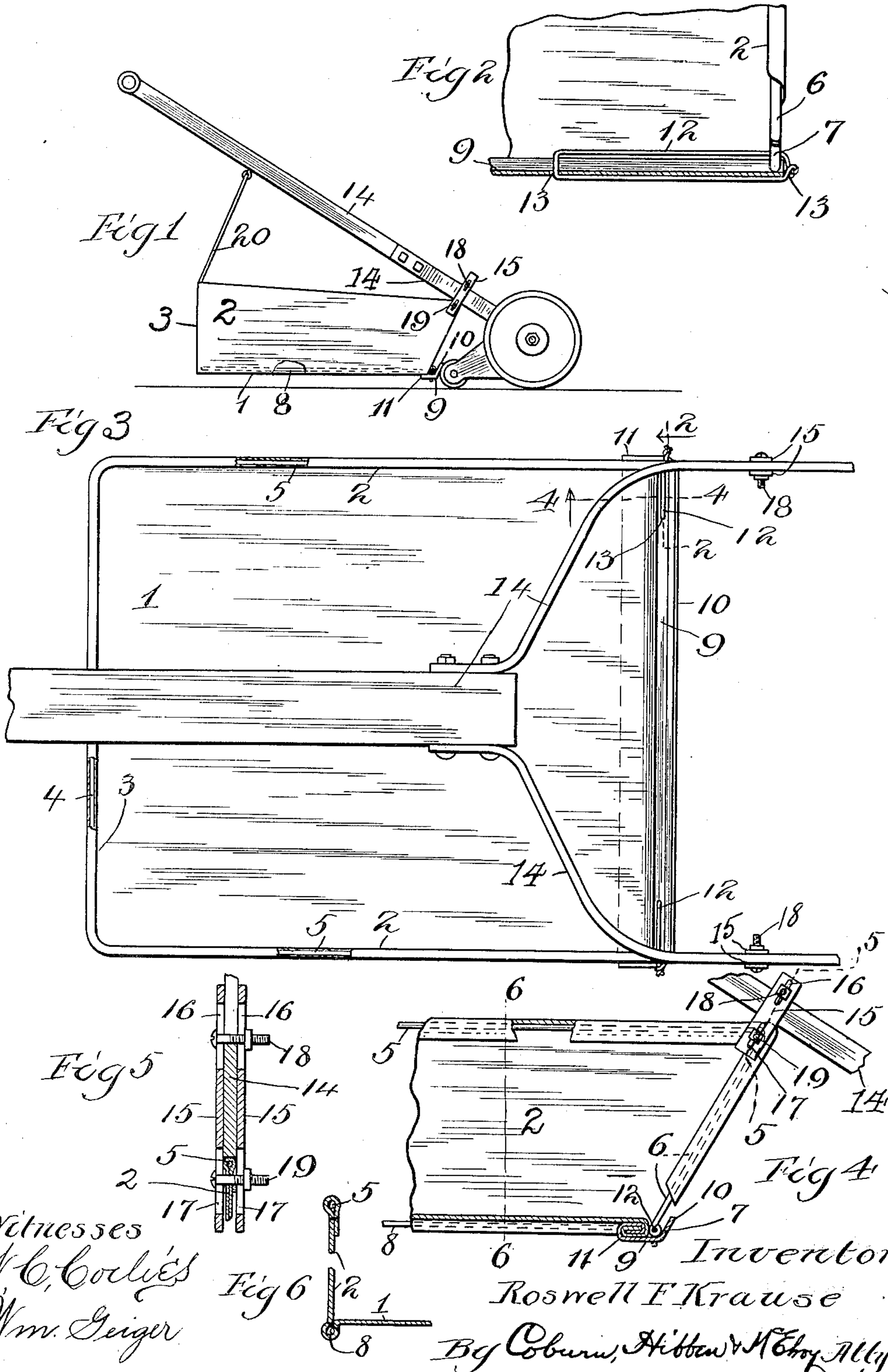
Patented Sept. 4, 1900.

R. F. KRAUSE.

GRASS CARRIER FOR LAWN MOWERS.

(Application filed Nov. 27, 1899.)

(No Model.)



UNITED STATES PATENT OFFICE.

ROSWELL F. KRAUSE, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE KRAUSE MANUFACTURING COMPANY, OF SAME PLACE.

GRASS-CARRIER FOR LAWN-MOWERS.

SPECIFICATION forming part of Letters Patent No. 657,289, dated September 4, 1900.

Application filed November 27, 1899. Serial No. 738,334. (No model.)

To all whom it may concern:

Be it known that I, ROSWELL F. KRAUSE, a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Grass-Carriers for Lawn-Mowers, of which the following is a specification.

My invention pertains to grass-carriers for lawn-mowers; and its particular object is to provide a novel, simple, and efficient construction of carrier whose bottom and sides are formed of canvas or similar suitable material and which shall be capable of adjustment and attachment on mowers of different widths of cut.

In the drawings, Figure 1 is a side elevation of a mower with my carrier attached; Fig. 2, an enlarged sectional elevation on line 2 2 of Fig. 3; Fig. 3, a plan of my carrier and mower-handle; Fig. 4, a sectional elevation on line 4 4 of Fig. 3; Fig. 5, a section on line 5 5 of Fig. 4, and Fig. 6 a section on line 6 6 of Fig. 4.

The carrier is preferably composed of a single piece of canvas forming the bottom 1, the two sides 2, and the end 3. The upper frame consists of a continuous wire having the end portion 4 and two side portions 5, which have downward and preferably inward extensions 6, each provided at its extreme end with an eye or hook 7. The lower frame consists of a continuous wire 8, having an end portion and the two side portions similar to the other frame so far as the two sides and the end are concerned. These two wire frames are secured to the canvas, preferably by sewing the wire in loops in the canvas, the upper frame being secured at the upper edge of the canvas and the lower frame at the juncture of the sides and ends with the bottom. A rigid strip 9, preferably of sheet metal, is arranged along the front edge of the bottom. The front edge 10 of this strip may be upturned, as shown, and its rear edge 11 may be folded over upon the bottom canvas itself, thereby to clamp and hold it. On the upper side of the strip, near each end, is a loop 12, which may be cheaply and advantageously made of a single piece of wire passing through vertical holes 13 and with its ends secured together. Obviously any other

suitable mechanical construction whereby an elongated loop may be provided may be adopted. The eyes 7 on the wire or rod portions 6, which form the frame for the front edges of the side canvas, engage in the loops, respectively, and are capable of movement therein, so that the sides of the carrier may be drawn inward to accommodate a shorter width or cut of mower or may be forced to its extreme outward position to accommodate a wider width or cut of mower.

Any suitable clamp for readily securing the free front corners of the sides of the carrier to the usual bifurcated handle 14 may be used. As shown, the clamp adopted consists of two similar plates 15, each having two longitudinal slots 16 and 17, through which pairs of slots pass clamping-bolts 18 and 19, respectively. The lower bolt 19 through the slots 17 also passes through the canvas of the side portions below the wire or rod, which is thereby clamped, as shown in Fig. 5. The handle-bifurcations are clamped between the plates. By means of the slots in these plates I secure a ready adjustment both for the width of the handle and for the height of the front end of the carrier. The usual cord or small chain 20 may be used to support the rear end of the carrier to the handle.

The advantages of my attachment are quite apparent.

The mower illustrated has a wide cut and requires the eyes to be at the outer ends of the loops 12; but when the carrier is to be attached to a smaller mower with a narrower cut the carrier is first detached by removing the upper bolts 18 of the clamp, permitting the carrier to be removed from the handle. To accommodate the smaller mower, the side portions of the carrier are drawn inward to an amount depending on the width of the mower, and the clamp is then applied. In this manner all standard sizes of mowers may be provided for and the front adjustment made without affecting the front strip on the bottom, which always remains its full length, not only protecting the front of the carrier from wear, but preventing the flexible bottom from bagging and eventually becoming worn out. By the use of this strip I am thus enabled to provide for the proper adjust-

ments and also to make the carrier-bottom of material, such as canvas, which is kept distended by the front strip. Moreover, the carrier or receptacle is collapsible.

5 Although I have described more or less precise forms and details of construction, I do not intend to be understood as limiting myself thereto, as I contemplate changes in form, the proportion of parts, and the substitution of equivalents as circumstances may suggest or render expedient and without departing from the spirit of my invention.

10 It will be understood that so far as the feature of the adjustment of the sides is concerned the bottom of the carrier is not necessarily flexible and provided with a rigid front strip, as any means other than this strip for supporting or mounting the loops or equivalent devices performing the same functions
20 may be employed.

I claim—

1. A grass-carrier for lawn-mowers comprising a frame having a bottom of flexible material, a rigid strip secured to the open
25 side of such bottom, the length of the strip being equal to the width of the bottom, and a connection between the side portions and the strip permitting such side portions to slide longitudinally of such strip.

30 2. A grass-carrier for lawn-mowers having an end, sides and a bottom of flexible material, a rigid strip on the open edge of such bottom, and loops on such strip, said sides engaging in and adjustable on such loops.

35 3. A grass-carrier for lawn-mowers comprising two sides, an end and a bottom of flexible material, a wire frame supporting the top edges of such sides, end and bottom and also the forward edges of the sides, such frame
40 having eyes on its free ends, a strip on the front side of the bottom, loops on such strip engaged by such eyes, and means for securing the carrier to the mower.

4. A grass-carrier for lawn-mowers having
45 two sides, an end, and a bottom of flexible material, a rigid supporting and protecting strip of separate material from the bottom but secured thereto, such strip extending from side to side on the front edge of such bottom
50 and of permanent length, and a connection between the side portions and the strip permitting such side portions to slide longitudinally of such strip whereby such side portions may be adjusted to vary the width of the carrier to the cut of the mower.
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5. A grass-carrier for lawn-mowers comprising a receptacle with sides, and with a bottom of flexible material, a rigid strip secured at its rear side to the bottom and forming

60 ing the front edge of such bottom and means for attaching the carrier to the mower, the length of such strip being equal to the width of the bottom, and a connection between the side portions and the strip permitting such side portions to slide freely and longitudinally
65 on the strip.

6. A grass-carrier for lawn-mowers comprising a receptacle having an end, two sides and a bottom, loops in the front edge of the bottom, and on the upper side thereof, the
70 lower inner corners of the sides terminating in eyes encircling, and adjustable in, the said loops, and means for attaching the carrier to the mower.

7. A grass-carrier comprising a bottom 1,
75 sides 2, end 3, an upper frame consisting of a wire or rod with end portion 4, side portions 5 and downwardly-extending portions 6 with eyes 7 on their extreme ends, a lower wire frame consisting of an end and two side portions, a strip 9 on the front edge of the bottom 1, elongated loops 12 on the strip engaged by said eyes 7 and means for clamping the carrier to a mower-handle.
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8. A grass-carrier, comprising a receptacle
85 having sides, and a flexible bottom, a sheet-metal strip 9 whose front edge 10 is upwardly turned and whose rear edge 11 is folded over upon the edge of the flexible bottom, loops near either end of such strip and in which
90 the sides are freely adjustable, and means for attaching the carrier to a mower.

9. A grass-carrier comprising a bottom 1, sides 2, end 3 of flexible material, an upper wire frame secured to the upper edges of the
95 carrier and having downwardly-extending portions 6 secured to the front edges of the sides 2 and provided at their ends with eyes or hooks 7, a lower wire frame with an end portion and two parallel side portions secured
100 at the juncture of the end and sides with the bottom, a rigid strip 9 secured to the front edge of the bottom and having at each end an elongated loop 12 engaged by such eyes 7 and movable therein and means for attaching the
105 carrier to a mower.

10. A grass-carrier for lawn-mowers comprising a receptacle having sides, and a bottom of flexible material, and means for adjusting the distance between the sides adjacent to the mower without changing the width of the bottom, said means comprising loops arranged on the front edge of the bottom, in which loops the said sides engage and slide.
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Witnesses:

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