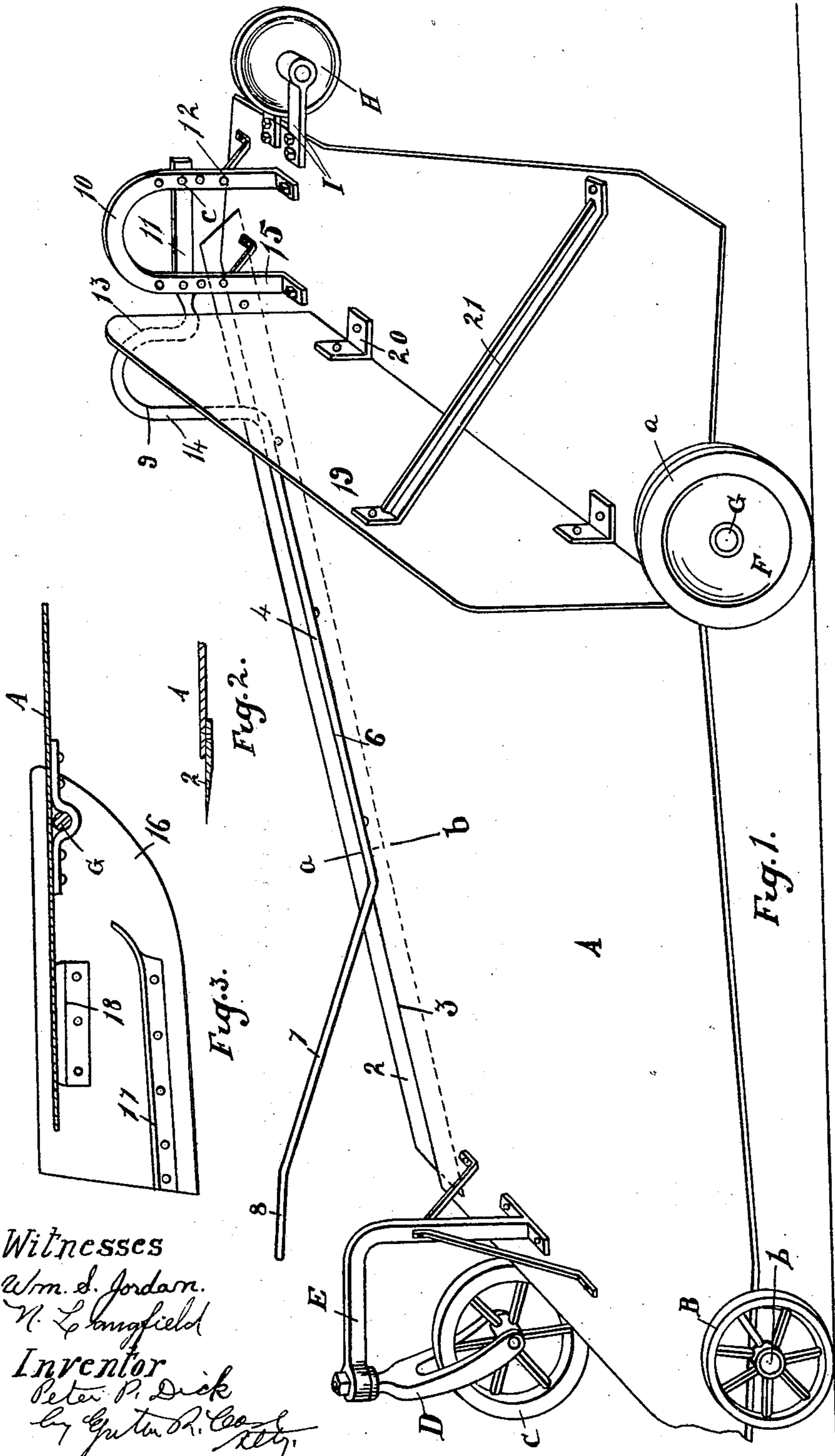


P. P. DICK.
BRUSH CUTTER.

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914,392.



Witnesses
 Wm. S. Jordan.
 N. Langfield
 Inventor
 Peter P. Dick
 by *Gustav R. Coe*
Att'y.

UNITED STATES PATENT OFFICE.

PETER PETER DICK, OF DIDSBURY, ALBERTA, CANADA.

BRUSH-CUTTER.

No. 914,392.

Specification of Letters Patent.

Patented March 9, 1909.

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To all whom it may concern:

Be it known that I, PETER PETER DICK, a subject of the King of Great Britain, residing at Didsbury, in the Province of Alberta, Canada, have invented certain new and useful Improvements in Brush-Cutters, of which the following is a specification.

My invention relates to improvements in apparatus for cutting brush, and the object of my invention is to provide apparatus of this class with a retainer bar which will gather the brush the width of the cut of the knife and more or less hold it so as to increase the efficiency of the knife in cutting the brush.

Another object of my invention is to provide the apparatus with a guard which will keep the cut brush from coming in contact with certain of the wheels of the apparatus and from clogging the same.

Another object of my invention is to provide my brush-cutter with special means to be used in cutting extra heavy brush.

Further objects of my invention will appear in the following specification, which will set forth the details of my invention.

The parts I claim as new will be set out in the claims forming part of this specification.

Figure 1 is a perspective view of my preferred form of brush-cutter, and Fig. 2 is a vertical cross-section on the line *a—b* Fig. 1. Fig. 3 is a side view of a runner designed to replace the removable back wheel of the apparatus when cutting extra heavy brush.

In the drawings, like characters of reference indicate corresponding parts in each figure.

My apparatus may be of any desired construction, and according to my preferred construction shown, the same consists of a platform A provided with front wheels B and C, the first-mentioned wheel being mounted on the axle *b*. The front wheel C is journaled in the fork D which is mounted in the bracket E carried by said platform.

F is a wheel suitably mounted on the axle G carried by the platform A. This wheel F is provided with a flange *a* so as to prevent side movement of the apparatus.

H is a wheel (mounted in suitable arms I carried by the platform A), which supports the platform A at one of its corners. The wheel H is out of the path of the uncut brush. 2 is the blade or knife which is suitably detachably secured at one side of the platform

A by any suitable means so that it may be readily removed and replaced.

Upon referring to Fig. 1 it will be noticed that the blade or knife 2 is associated with the side 3 of the platform A (which side is formed at an angle) so that when said blade or knife is brought into contact with the brush it will sever the same.

To reduce to a minimum the sliding of the blade or knife 2 against the stocks of the brush without severing the same, I provide any suitable retainer bar which will perform the function of gathering in the brush for the width of the cut of the blade or knife and holding it in contact with the cutting edge thereof. My preferred form of construction for this element of my invention consists in a bar or rod 4 adjustably supported a suitable distance above the platform A. The portion 6 of the retainer bar or rod 4 lies above the platform A and within the cutting edge of the blade or knife 2, and the portion 7 of the said bar or rod is formed outward so that its end 8 will gather in the uncut brush for the width of the swath cut by the blade or knife 2. As the apparatus is advanced it will be understood that the uncut brush will be gathered in by the portion 7 and its end 8 of the bar 4 and crowd the uncut brush against the blade or knife 2. During the continued advance of the apparatus this crowded brush will be still further crowded against the blade or knife 2 by reason of the portion 6 so as to increase the cutting efficiency of said blade or knife, as will be clearly understood. In case there should be any uncut brush escape between the portion 6 of the bar 4 and the knife, and in order to prevent choking of the brush in the apparatus, I have constructed the bar or rod 4 with the releasing loop 9 so as to allow of the escape of the uncut brush. 10 is a bracket carried by the platform A. By means of its end 11 the bar or rod 4 is carried or supported by the bracket 10. This bracket is provided with a plurality of pairs of holes 12 with which align the holes (not shown) in the end 11 so that by the removal of the pins or bolts *c* or other fastening means, the height of the end 11 may be adjusted to provide for the proper adjustment of the bar or rod 4 itself. The leg 13 of the releasing loop is preferably shorter than the leg 14, thereby so positioning the end 11 as to allow for adjustment of the bar 4, and also to provide

additional room between the leg 14 and the inner leg 15 of the bracket 10 so as to prevent choking of the brush.

For extra heavy brush I find that I get
5 best results by removing the wheel F and placing on the axle G a runner 16. This runner is quite narrow, and is provided with a flanged member 17 secured preferably to the inner side thereof and above the bottom of
10 the runner, so that while the runner is allowed to sink into the ground a certain distance so as to prevent side movement of the apparatus wheel the flanged member 17 will prevent the runner from sinking down too
15 far. 18 is the flanged knee secured on the inner side of the runner 16 and designed to support one of the rear corners of the platform A. The said runner is of course mounted and held in place on the axle G in
20 any suitable manner.

In order to prevent the cut or severed brush from choking the rear wheels of the apparatus I provide a rear guard 19 secured at its lower portion by the brackets 20 to the
25 platform A. 21 is a brace for the guard 19. As the apparatus is advanced it will be understood that the cut brush will be deflected by the rear guard 19 so as to pass over the platform A in front of the wheel F.

30 Although I have shown no means for moving the apparatus still it will be understood that any suitable tongue or draft gear will be associated with the apparatus.

I do not confine my invention to use in
35 connection with vehicles that are drawn by horse-power, as it will be readily understood that any suitable motor may be used to drive the vehicle.

I of course may entirely omit the use of
40 wheels in connection with my apparatus, as will be understood by one skilled in this art.

What I claim as my invention is:

1. The combination with a brush-cutter
45 comprising a vehicle and a knife carried thereby and held at the desired angle to the line of movement thereof, of a retainer bar comprising a member the intermediate portion of which is held above the vehicle and within the edge of the said knife, and the
50 front portion of which extends from said intermediate portion outward at an angle so as to gather in the uncut brush and crowd it against the edge of the knife; a releasing loop formed in the rear portion of said retainer bar so as to permit the escape of the
55 uncut brush, and means for supporting said retainer bar on said vehicle.

2. The combination with a brush-cutter
60 comprising a vehicle and a knife carried thereby and held at the desired angle to the

line of movement thereof, of a retainer bar comprising a member the intermediate portion of which is held above the vehicle and within the edge of the said knife, and the front portion of which extends from said intermediate portion outward at an angle so as to gather in the uncut brush and crowd it against the edge of the said knife; a releasing loop formed in the rear portion of said retainer bar and provided with a short
70 leg which terminates in the supported end of the retainer bar, and a bracket carried by said vehicle by which the said supported end is adjustably carried.

3. The combination with a brush-cutter
75 comprising a vehicle and a knife carried thereby and held at the desired angle to the line of movement thereof, of means carried by said vehicle and so associated with said knife as to crowd the uncut brush and hold
80 it against the edge of the said knife, and a deflecting guard carried by said vehicle so as to deflect the cut brush over one side thereof.

4. The combination with a brush-cutter
85 comprising a vehicle and a knife carried thereby and held at the desired angle to the line of movement thereof, of means carried by said vehicle and so associated with said knife as to crowd the uncut brush and hold
90 it against the edge of the knife; a runner mounted on said vehicle and on the side removed from said knife, and a flanged member carried by said runner so as to prevent
95 it from sinking too far into the ground.

5. The combination with a brush-cutter comprising a vehicle and a knife carried thereby and held at the desired angle to the line of movement thereof, of means carried
100 by said vehicle and so associated with said knife as to crowd the uncut brush and hold it against the edge of the knife; a runner mounted on said vehicle and on the side removed from said knife, and a flanged knee carried by said runner and supporting one of
105 the corners of said vehicle.

6. The combination with a brush-cutter comprising a vehicle, and a knife carried thereby and held at the desired angle to the line of movement thereof, of a runner
110 mounted on said vehicle, and on the side removed from said knife, and a flanged member carried by said runner so as to prevent it from sinking too far into the ground.

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

PETER PETER DICK.

Witnesses:

ISAAC GUSBRECHT,
DAVID M. WEBER.