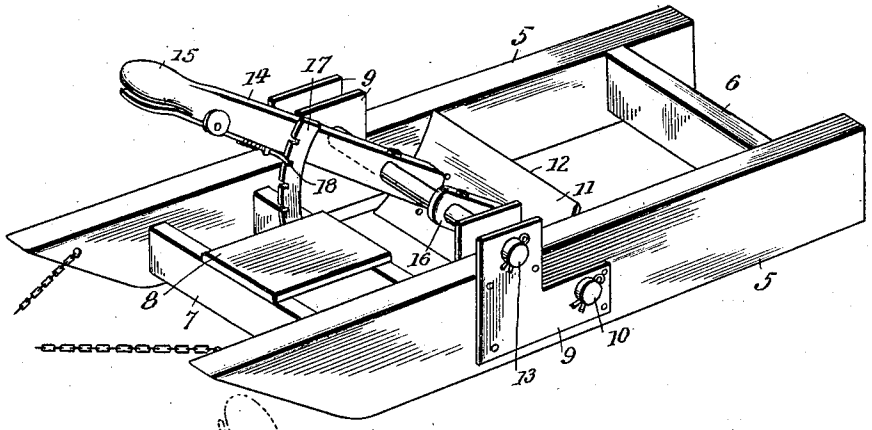
March 25, 1924. 1,487,723

J. H. CORBITT

LAND LEVELER

Filed April 25, 1921

Fig. 1.



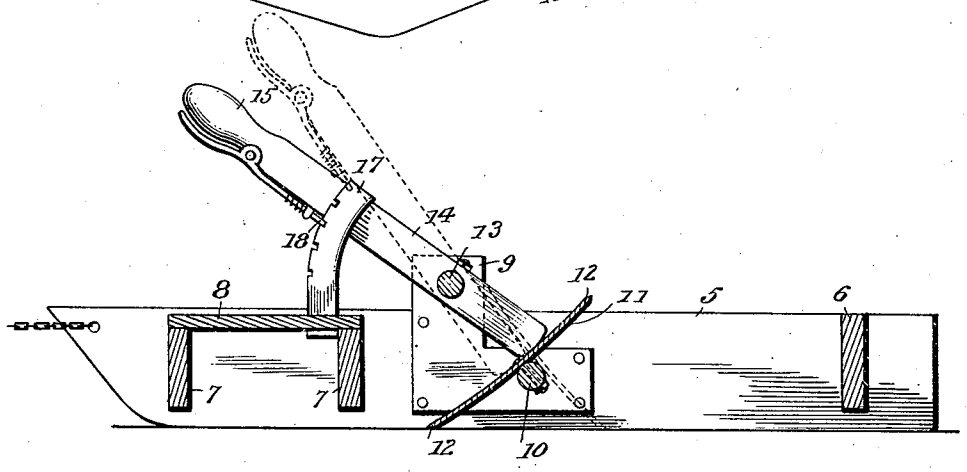


Fig. 2.

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UNITED STATES PATENT OFFICE.

JAMES H. CORBITT, OF SOLOMONVILLE, ARIZONA.

LAND LEVELER.

Application filed April 25, 1921. Serial No. 464,282.

To all whom it may concern:

Be it known that I, JAMES H. CORBITT, a citizen of the United States, residing at Solomonville, in the county of Graham and State of Arizona, have invented certain new and useful Improvements in Land Levelers, of which the following is a specification.

This invention relates to new and useful improvements in land levelers, and the primary object is to provide an improved device of this character which is so designed as to be reversed for use as a land pressing device when desired.

A further object of the invention resides in providing a blade which is revolubly mounted so as to be disposed for use as a leveler or presser at will.

Still another object of the invention resides in providing manual means for the actuation of the blade so as to dispose the same to various angles in operation.

With these and other objects in view my invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawing forming a part of this application,—

Figure 1 is a perspective view of the device constructed in accordance with my invention; and

Fig. 2 is a longitudinal section therethrough.

In describing the invention I shall refer to the drawing in which similar reference characters designate corresponding parts throughout the several views, and in which 5 designates a pair of side pieces or runners which are of considerable length and are braced and held together at their rear ends by means of transverse bracing bar 6 and are held together at their front ends by means of a pair of bracing bars or beams 7, said bars being spaced a considerable distance above the surface of the ground to be leveled. Mounted on the bar 7 is a standboard 8 whereby the operator of the device may apply his weight to the leveler.

Secured to the inner and outer faces of the runners or side pieces 5 are the angular metal bearing plates 9, and revolubly mounted in the side pieces and in the bearing plates is a shaft 10 which is held in place in any preferred manner. Secured to the revoluble shaft 10 is an arcuate blade 11 which has both edges thereof beveled to form cutting or engaging edges, as clearly shown at 12. In the particular position of the blade as shown in Figs. 1 and 2 of the drawing, the concaved face of said blade faces forwardly when the device is being used as a leveler, and when the shaft 10 is revolved to dispose the convex face forwardly the opposite edge of said blade will contact with the ground and act as a pressing device.

The metal bearing plates 9 project upwardly against the upper edge of the runners or side pieces 5, and revolubly mounted therein is an additional shaft 13. Removably bolted to the shaft 13 is a lever 14, the lower end of which is adapted to contact with the face of the blade 11, as clearly shown in Fig. 2 of the drawing. A handle 15 is provided on the lever to actuate the same and an additional bearing member 16 is removably secured to the shaft 13 which also contacts with the blade 11 upon the actuation of the shaft 13 by said lever 14. An arcuate rack 17 is carried on the side of the stand-board 8 and a spring detent 18 carried on the lever 14 is adapted to engage said rack so as to retain the lever and correspondingly the blade in any adjusted position.

When in the position shown in the drawing the blade 11 will engage with the ground and will drag the dirt, and the dirt will collect in front of the blade and between the front ends of the runners, said blade forming with said runners a receptacle which will hold the load of dirt until a depression is reached and the load will be automatically discharged into said depression and the same will be filled up and the ground leveled. The blade may be adjusted to the desired angle so as to properly discharge the load. As before stated the runners are of considerable length so that in passing over uneven ground they will maintain an even course and will not drop into small depressions thus conducing to a smooth and steady movement of the leveler. The blade will be held in its adjusted position by means of the lever 14 and the bearing member 16 as clearly shown, and by disposing the lever to an upward position the blade may be entirely revolved so as to form a land presser and when in this position the blade will drag no dirt, but will make a smooth surface. After sowing the seed it is possible to use this pressing device which will eliminate the use of a roller.

From the foregoing description of the construction of my improved device, the operation thereof will be readily understood, and it will be seen that I have provided a simple, inexpensive and efficient means for carrying out the objects of the invention.

While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in the form, proportion and in the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the principles of the invention.

What I claim is:

1. A device of the character described including a pair of ground engaging parallel side runners, a shaft extending transversely of the runners, a blade secured to the shaft and adapted to have either of its longitudinal edges disposed in contact with the ground, said blade when in one of said positions forming with the runners a load carrying receptacle in front of the blade and means for retaining the blade in contacting relation to the ground when in either of said positions.

2. A land leveler comprising side runners spaced apart, a blade revolubly mounted between the runners and forming with the runners in front of the blade a load carrying receptacle, a lever fulcrumed on said runners, and having its one end in frictional contact with said blade to actuate the same to various positions, and means for locking said lever in various adjusted positions.

3. A land leveler comprising side runners, a blade revolubly mounted between them and forming with the runners a load carrying receptacle in front of the blade, said blade being capable of use as a scoop blade in one position and as a pressing device when disposed to another position, a lever fulcrumed on said frame and having its one end in frictional engagement with said blade, and means for locking said lever in its various adjusted positions.

4. A land leveler comprising long side runners, a blade revolubly mounted between them, and forming with the runners a load carrying receptacle, said blade being capable of use as a scoop blade when disposed in one position and adapted for use as a pressing device when disposed in another position, a lever fulcrumed on said frame in a plane above said blade and having its lower end adapted for frictional engagement with said blade to retain the latter in its adjusted positions, and means for locking said lever in its adjusted positions.

5. A land leveler comprising side runners, a blade revolubly mounted between them, forming a receptacle in front of the blade, a shaft rotatably mounted on said frame in a plane above the horizontal plane of the axis of said blade, a lever removably secured to said shaft and having one end thereof adapted for frictional contact with said blade above its revoluble axis, a bearing member carried on said shaft adapted for contact with said blade, and means for locking said lever in its various adjusted positions.

6. A land leveler comprising side runners, an arcuate transverse blade revolubly mounted between them, intermediate their ends, and having double engaging edges thereon, said blade being adapted for use as a scoop blade when disposed in one position and adapted for use as a pressing device when revolved to another position, a shaft rotatably mounted in said frame in a plane above the horizontal plane of the axis of said blade, a lever removably secured intermediate of its ends on said shaft and having its lower end adapted for frictional contact with said blade to limit the movement of the latter in one direction, a bearing member removably carried on said shaft and adapted also to contact with said blade, and means for locking the said lever and correspondingly said blade in various adjusted positions.

In testimony whereof I affix my signature.

JAMES H. CORBITT.