April 2, 1940. A. L. JOHNSON 2,196,116

CATCH BASIN CLEANER

Filed Sept. 20, 1938

Fig. 1

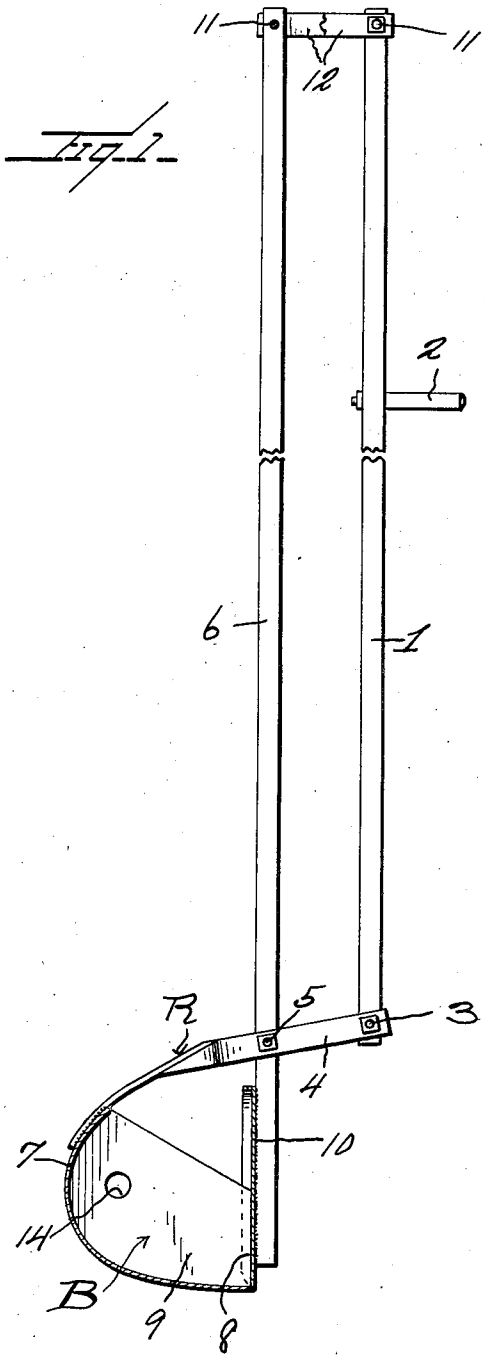


Fig. 2

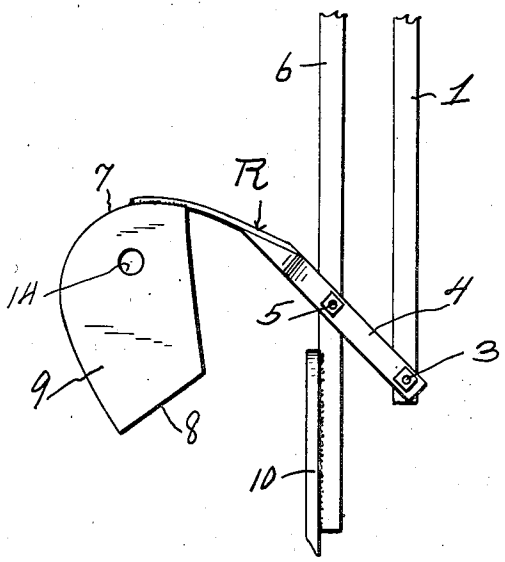
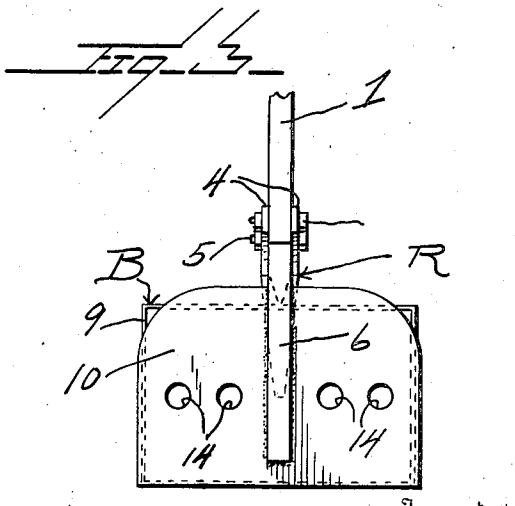


Fig. 3



Inventor

A. L. Johnson

By Watson E. Coleman

Attorney

Patented Apr. 2, 1940 2,196,116

UNITED STATES PATENT OFFICE

2,196,116

CATCH BASIN CLEANER

Albert L. Johnson, Spencer, Iowa

Application September 20, 1938, Serial No. 230,862

1 Claim. (Cl. 294—53)

This invention relates to a catch basin cleaner, and it is a particular object of the invention to provide a device of this kind whereby a basin may be effectively cleaned from the ground surface without pumping water from the basin.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved catch basin cleaner whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein—

Figure 1 is a view partly in side elevation and partly in section of a catch basin cleaner constructed in accordance with an embodiment of my invention, the bucket being in closed position;

Figure 2 is a fragmentary view in side elevation of the lower portion of the device as illustrated in Figure 1 with the bucket in raised or opened position;

Figure 3 is a view in front elevation of the lower portion of the device as illustrated in Figure 1.

As disclosed in the accompanying drawing, 1 denotes a handle member of desired length and which is provided in relatively close proximity to its outer end with a hand hold 2. The opposite or inner end portion of the handle member 1 is pivotally connected, as at 3, between the spaced straps 4 of a rock arm R. This pivotal mounting 3 is at one end portion of the arm R and said arm R at a desired point intermediate its ends is pivotally connected, as at 5, with the lower or inner end portion of a second elongated handle member 6. This handle member 6 in the present embodiment of the invention is directed between the straps 4 of the arm R.

The end portion of the straps 4 of the arm R remote from the pivotal connection 3 are welded or otherwise securely fastened to the upper portion of the rear or back wall 7 of a bucket B. This bucket B is of a scoop type and has its entering edge disposed inwardly of the arm R. The inner or free end edges 8 of the side walls 9 of the bucket B are straight so as to have close contact with the spade plate 10 carried by the lower end portion of the handle member 6 or that portion of the handle member 6 below the arm R.

The upper or outer end portions of the handle members 1 and 6 have pivotally connected therewith, as at 11, the connecting links 12 whereby the handle members 1 and 6 have endwise movement one independently of the other.

The walls of the bucket B and also the spade plate 10 are provided with the openings 14 whereby is substantially eliminated any resistance being offered to the use of the implement by the water within the basin to be cleaned.

In operation, the handle member 1 is to be depressed or moved downwardly to swing the bucket B into open position before the implement is inserted within the catch basin. With the bucket B in open position the spade plate or blade 10 is pushed into the mud within the basin after which the handle member 1 is lifted. This will swing the bucket B downwardly through the mud into contact with the spade plate or blade 10 and the implement is withdrawn from within the basin by pull upon the handle member 1 which will assure the maintenance of the bucket B in closed position until after it has been raised to the surface. To empty, the implement is placed upon the ground and the handle member 1 pushed downwardly to cause the bucket B to swing upwardly into open position.

From the foregoing description it is thought to be obvious that a catch basin cleaner constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:

A catch basin cleaner comprising two elongated handle members arranged side by side, a link connection for the outer end portions of the handle members, a rock arm pivotally connected to the lower portions of the handle members, one of the handle members having a portion extending below the pivotal connection therewith of the rock arm, said rock arm extending a material distance beyond the handle member having the lower extension, a scoop bucket carried by the extended portion of the rock arm and having its entering edge disposed toward the lower extended portion

of said one of the handle members, and a substantially flat spade plate carried by the lower extended portion of the said handle member, said spade plate having its outer flat face on a plane substantially parallel to the adjacent lower extended portion of the handle member, the entering edge and the adjacent side edges of the bucket being substantially straight for close contact with the spade plate when the bucket is at the limit of its movement toward the spade plate, the extended portion of the rock arm and the mounting of the bucket thereon being such as to have the entering edge of the bucket contact with the lower edge portion of the spade plate.

ALBERT L. JOHNSON.