

H. H. BAKER.

COMBINED HOE, SCRAPER, AND SWEEPER.

Patented Nov. 28, 1876.

No. 184,690.

FIG. 1.

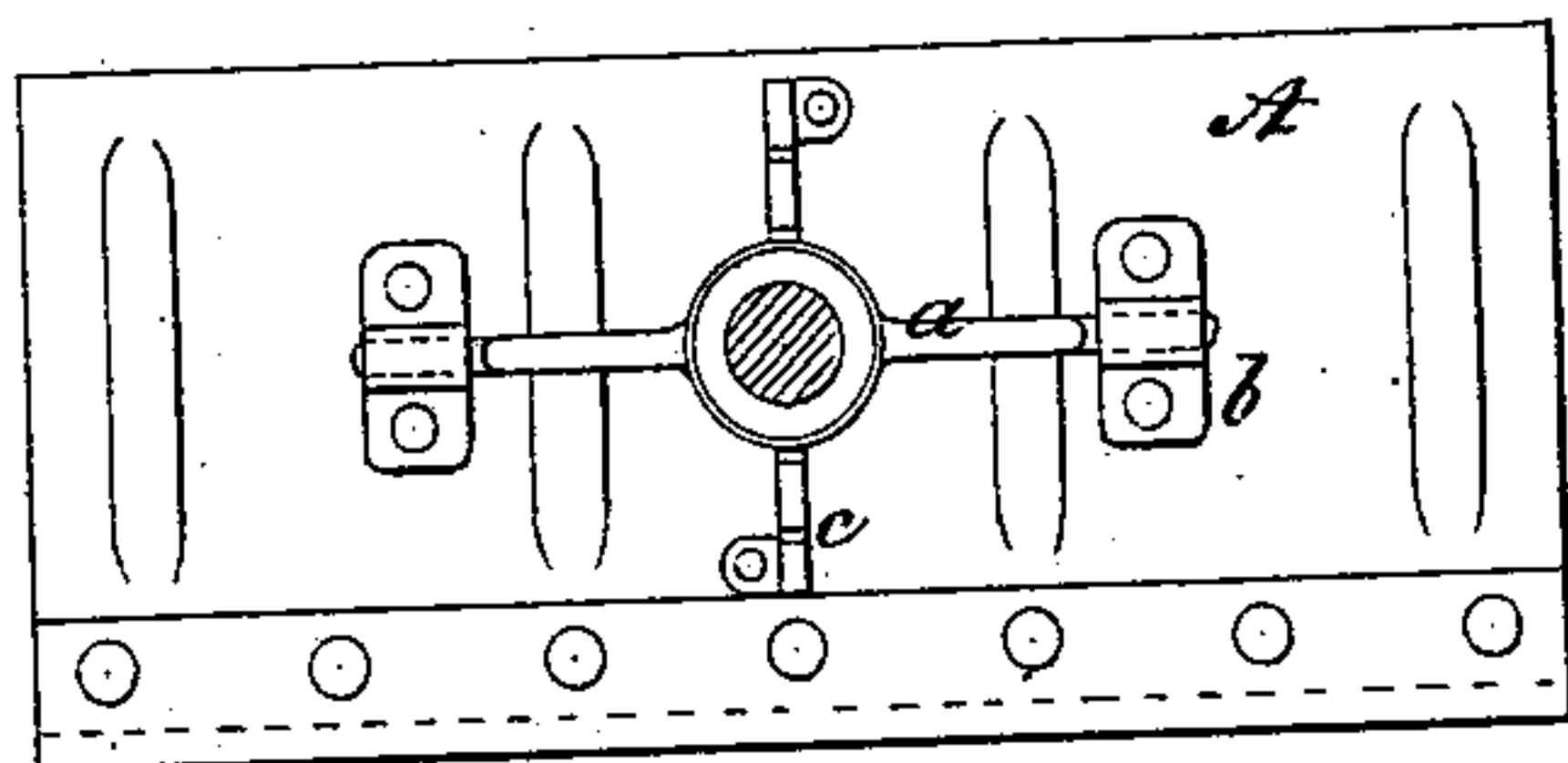


FIG. 2.

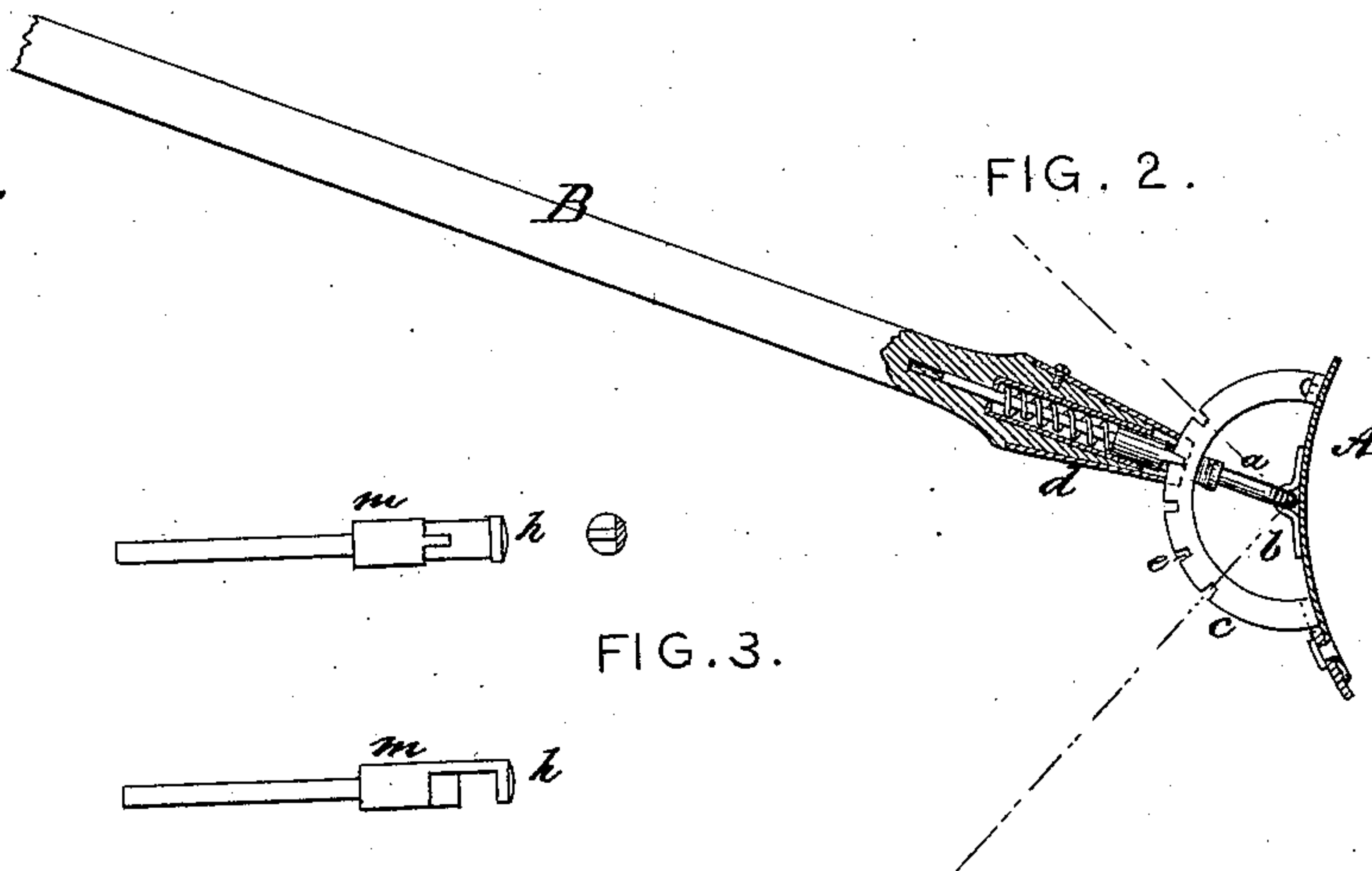
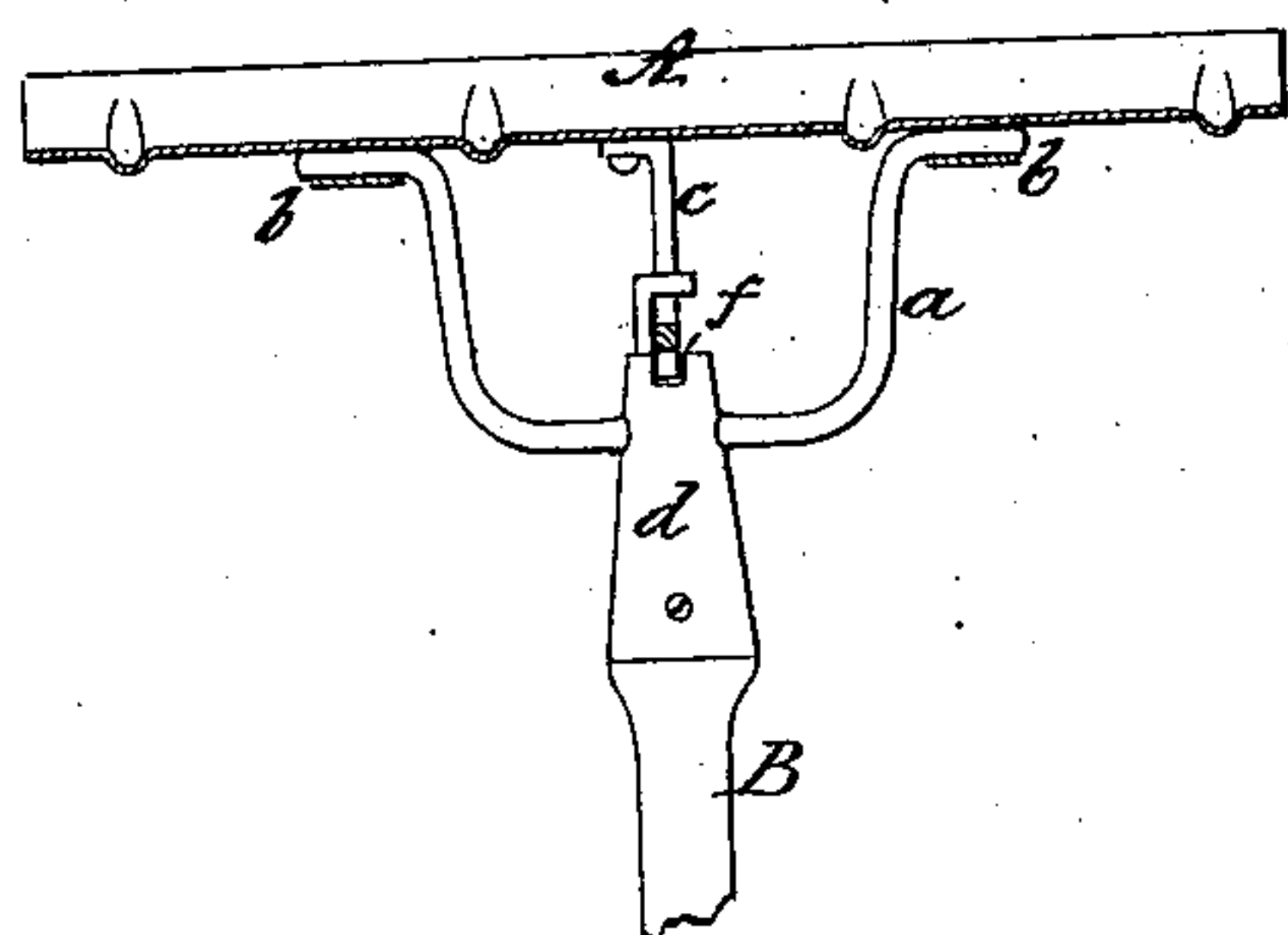


FIG. 3.

FIG. 4.



WITNESSES.

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HALSEY H. BAKER, OF PLAINFIELD, NEW JERSEY.

## IMPROVEMENT IN COMBINED HOE, SCRAPER, AND SWEEPER.

Specification forming part of Letters Patent No. 184,690, dated November 28, 1876; application filed March 14, 1876.

*To all whom it may concern:*

Be it known that I, HALSEY H. BAKER, of Plainfield, in Union county, and State of New Jersey, have invented a Combined Hoe, Scraper, Sweeper, and Scrubber, of which the following is a specification:

The object of this invention is to provide, in a single instrument, a handy implement, which, by reversal of its edges and adjustment of its angular position, may be adapted for such various uses as cleaning stables, shoving grain or chaff on barn-floors, removing snow from sidewalks, forcing into heaps mud and dirt on pavements, leveling and smoothing the walks and beds in a garden, removing chips, shavings, or dirt in factories, and sweeping the floor in the same operation, and for various other cleansing operations, either wet or dry, in many of which operations it supersedes and performs the work of two, and sometimes of three, implements as at present used, and performs the work in a better manner. The invention consists of a scoop or blade having straight and parallel edges, the one unyielding and the other flexible, and of concave or curvilinear form in its vertical section, and corrugated in the same direction nearly, but not entirely, from edge to edge, to prevent the material being operated on from sliding laterally off the blade; also, in a hinged handle made adjustable on said scoop to any desired angle to either edge thereof, to adapt it to the variety of uses for which it is applicable.

I will now further describe by referring to the accompanying drawings, in which—

Figure 1 represents a rear view of the scoop with its appendages, the handle being in section. Fig. 2 is a side view of the same, partly in section. Fig. 3 shows the locking-pin on an enlarged scale, in two positions and cross-section. Fig. 4 is a top view, the scoop being in section.

The same letters indicate like parts in the several figures.

A is the scoop, which is made of steel or other suitable material, straight on its upper and lower edges, and curved upwardly. The center portion is corrugated in the direction of the curvature nearly to the edges, leaving

them straight. These corrugations give stiffness to a light plate, and also serve to prevent the snow, mud, or other article being operated on from sliding off laterally as it accumulates. To one of the straight edges of this plate or blade I rivet or otherwise connect a strip of leather, rubber, or other flexible material, for use in mud or water, or to sweep the dust off of pavements or floors, after the dirt or other dry material has been removed by the unyielding edge. To the back or convex side of this scoop or blade is hinged the handle B, by means of a bow-shaped iron, *a*, and bands *b*. A crescent-shaped brace, *c*, is also secured to the back of the blade or scoop, between the hinged bands *b* of the handle. In the outer periphery of this crescent is a series of notches, *e*. On the inner end of the handle is a ferrule, *d*, with a notch, *f*, across its end, which spans the edge of the crescent, and which serves to steady it. The ferruled end of the handle is somewhat enlarged, to admit of a chamber or socket being formed in it to receive a spring and bolt, as represented in Fig. 2. The latter (more clearly shown in Fig. 3) is cut away at one side sufficiently to allow the crescent to pass freely through this cut portion on its center line. It is further cut away inwardly on each side, leaving a tongue or spur in the center, which, being borne outwardly by the spring in the socket, locks into one of the notches *e* in the crescent, to retain the handle in the desired position, and by pressing with the finger on the button-like end *h*, and forcing the bolt *m* back into the socket, the angular position of the handle may be changed, as and when desired.

It will thus be seen that the implement may be adapted to use either edge, and at a greater or less angle, according to the nature of the material being operated on.

What is here claimed, and desired to be secured by Letters Patent, is—

1. An implement consisting of the blade A, having one stiff and one flexible edge, hinged handle B, crescent *c*, and bolt *h*, substantially as and for the purposes set forth.

2. The combination of the spring-bolt *m* in the handle B with the crescent-formed



brace on the back of the scoop or blade A, substantially as described.

3. The concave blade A, in combination with the hinged handle B and locking device c h, all constructed and arranged substantially as shown and described.

4. The curved blade A, provided with cen-

tral corrugations f, substantially as and for the purpose set forth.

H. H. BAKER.

Witnesses:

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