

G. B. Markham,
Edge-Tool Grinder.
No. 64,342. Patented Apr. 30, 1867.

Fig. 1.

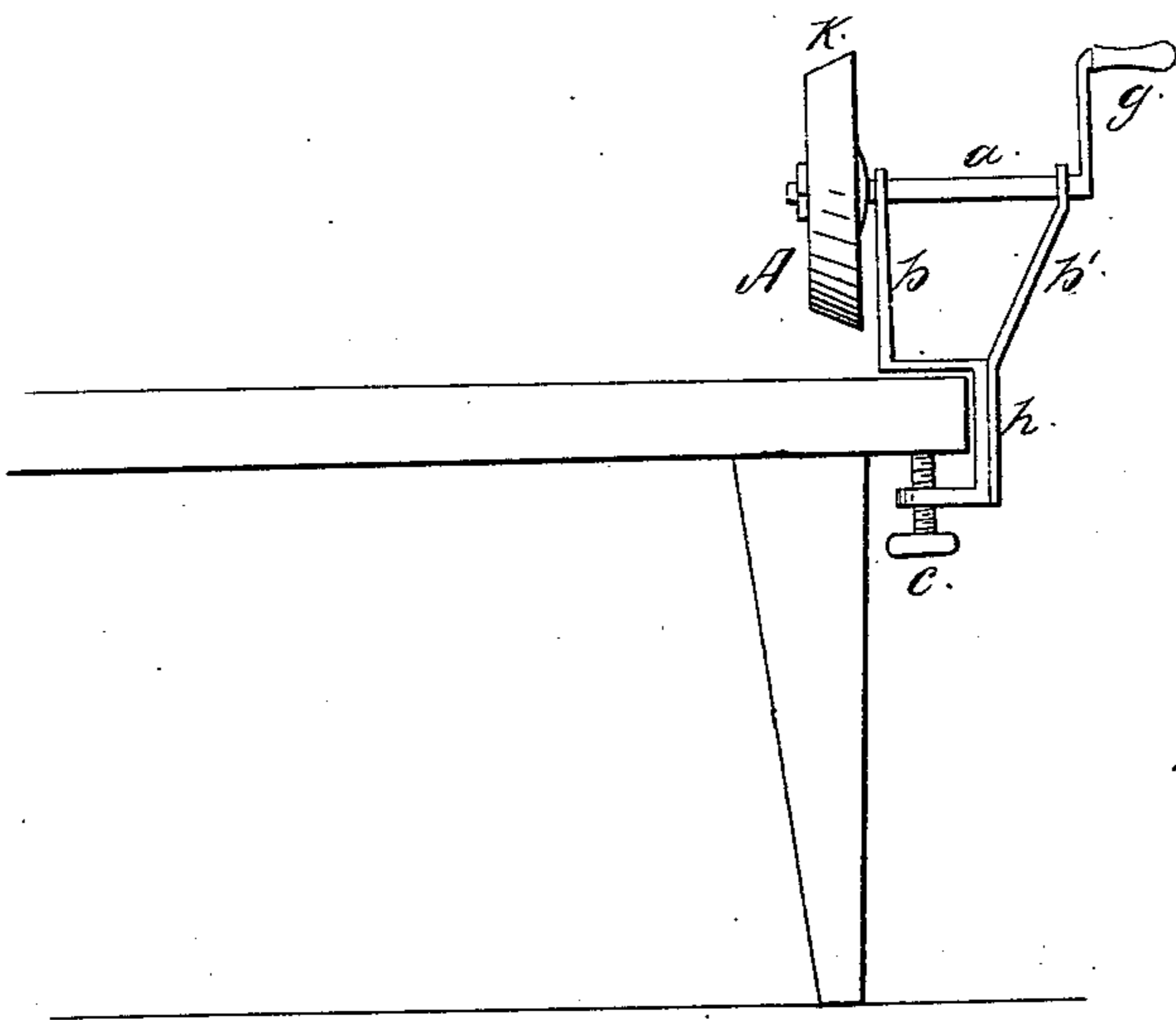


Fig. 2.

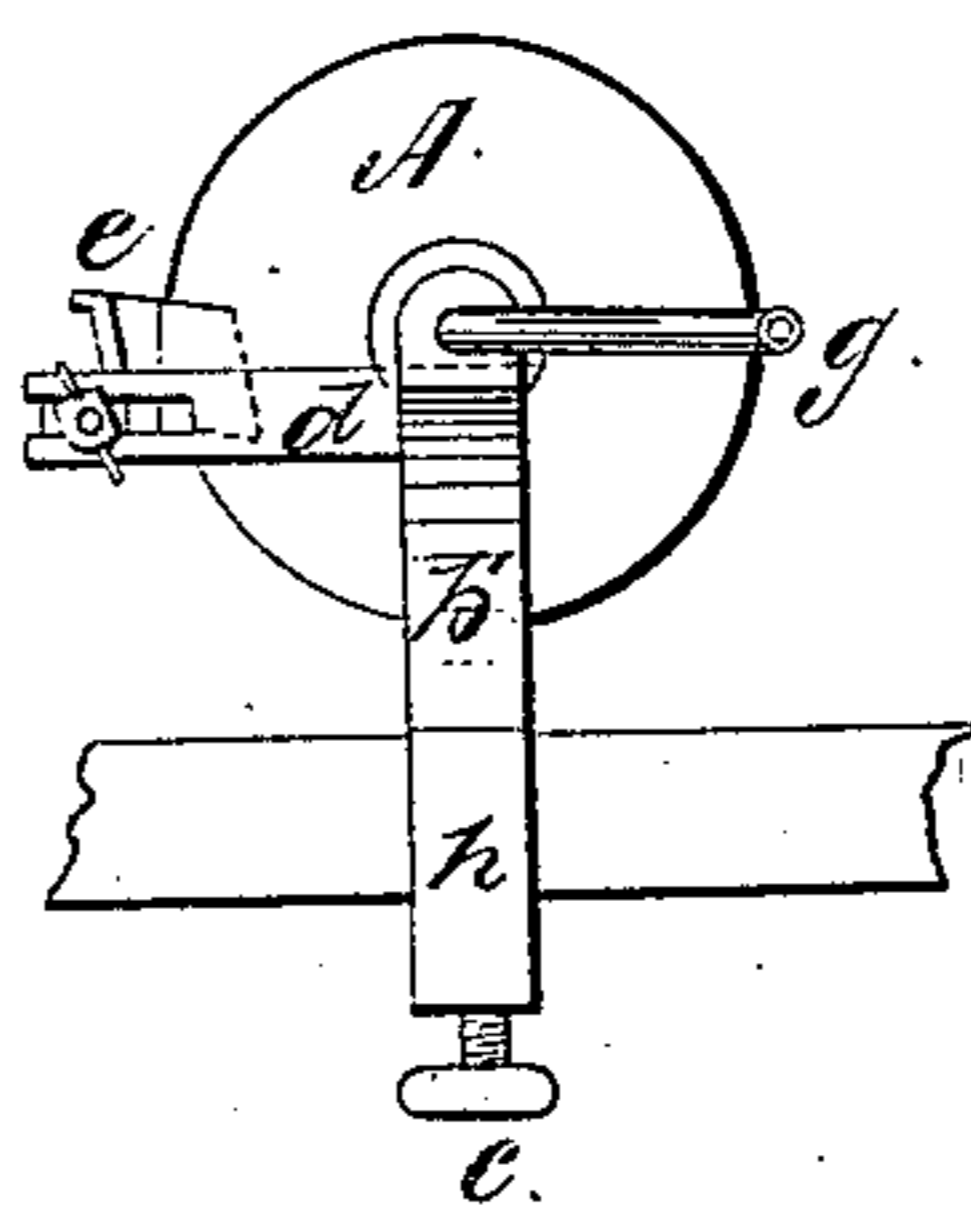


Fig. 3.

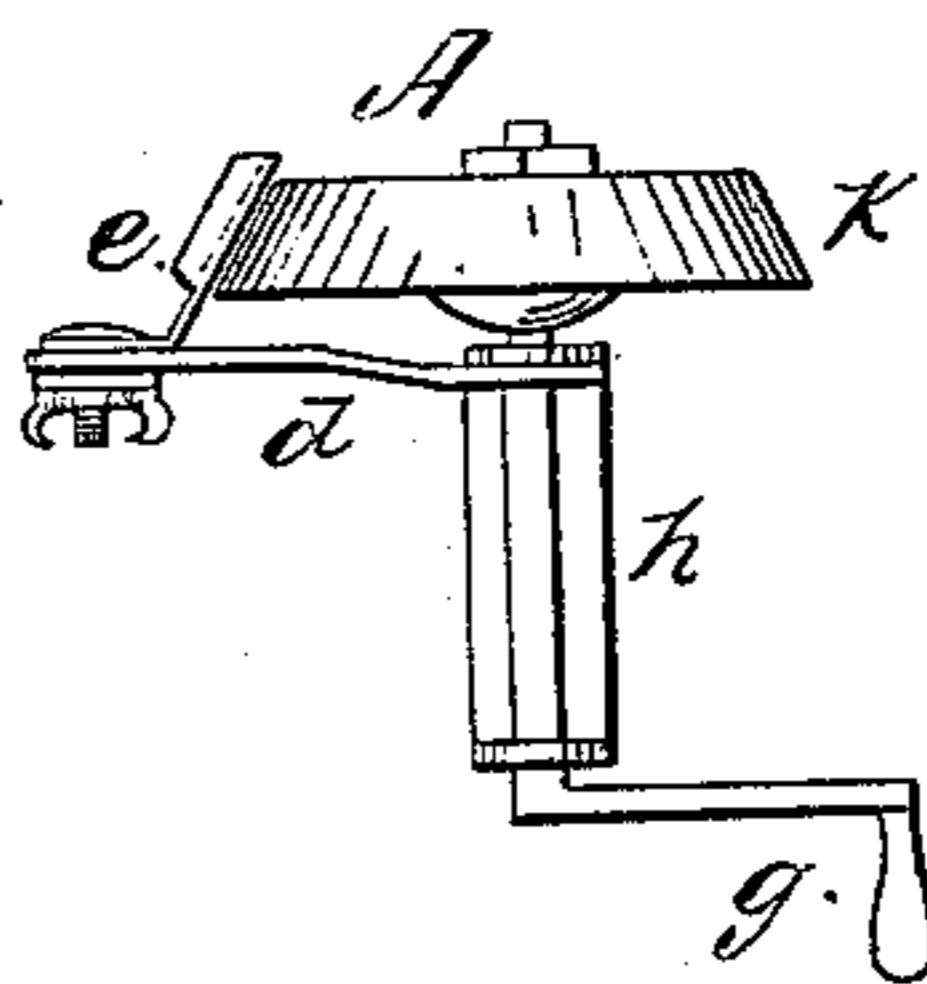


Fig. 4.

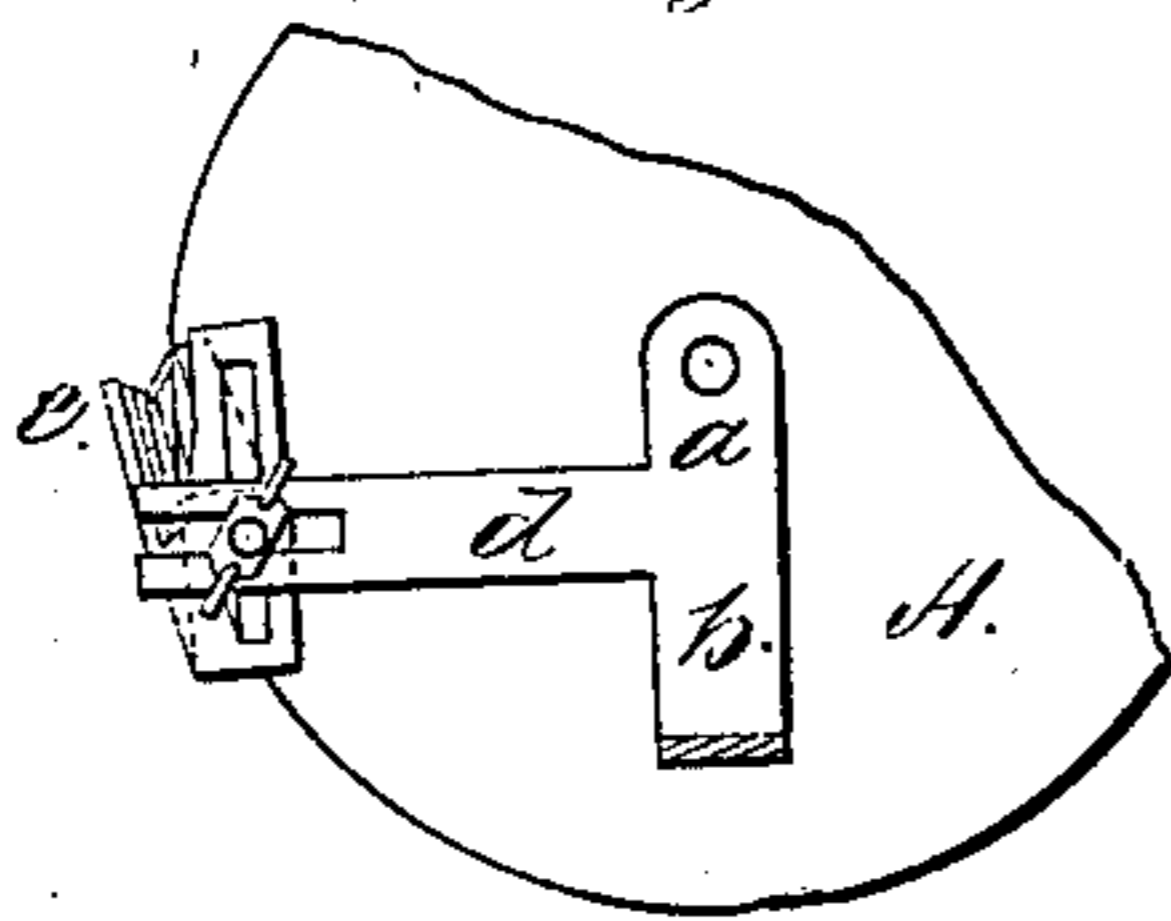


Fig. 5.



Witnesses:
Thos. Truoch
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United States Patent Office.

GEORGE B. MARKHAM, OF PLYMOUTH, MICHIGAN.

Letters Patent No. 64,342, dated April 30, 1867.

IMPROVED KNIFE-SHARPENER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE B. MARKHAM, of Plymouth, Wayne county, Michigan, have invented a new and useful improvement in Grindstones for family use, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents my improved portable bevel-edge grindstone, attached to a table, in a side view.

Figure 2 represents the same in a back view.

Figure 3 is a top view; and

Figures 4 and 5 are details enlarged.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in the construction of portable grindstones for family use; and consists in hanging a small stone, either natural or artificial, in a light metal frame, to be attached with a set-screw to a table or shelf, and provided with a crank for turning the stone, the chief feature of the construction of which is cutting the stone to a bevel face on the side opposite the crank for the purpose of allowing articles like table-knives, scissors, &c., to be ground on a small stone without coming in contact with the crank.

The great objection to small portable grindstones for family use when made as usual, with a square face, is that they are rendered almost or quite useless by the contact of the crank in turning with the articles being ground. In this case the crank must be made either too long in the axis for convenience or too small for power and utility. By my improved bevelled form of the face of a portable stone, this difficulty is entirely obviated, and a small family grindstone, adapted to general use for domestic purposes, is made, neat, compact, and convenient.

A is a small grindstone hung on one end of the axis *a*, to which it is secured by a washer on the inside and a nut on the outside screwed on the axis. The axis *a* is set in a light metal frame, having two upright branches, *b b'*, formed with a clamp, *h*, at the lower part to fit on the edge of a table or bench, as indicated in red lines, to which it is secured by a thumb-screw, *c*. The edge of the grindstone on the side opposite the crank *g* is cut away at an angle or bevelled to make the face *k* range in a line above the crank when it is raised, as indicated in red, fig. 1. Thus when an article like a case-knife is ground on the bevel face *k*, the crank can be turned without striking it or interfering with the operation. An arm, *d*, is attached to the frame-branch *b*, having an adjustable guide-rest, *e*, on the extremity, which lies close to the face of the stone, and serves the purpose of a bearing for the article to be ground, to hold it steadily and evenly against the stone.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The adjustable guide-rest *e*, attached to the frame-branch *b* by an arm, *d*, when constructed as described, and arranged in relation to the bevelled grindstone A, and its metal supporting-frame, as herein set forth for the purpose specified.

The above specification of my invention signed by me this 26th day of January, 1867.

GEORGE B. MARKHAM.

Witnesses:

P. C. HALL,

J. N. HEDDEN.