

(No Model.)

G. M. PATTEN.
COMBINATION ICE TOOL.

No. 277,334.

Patented May 8, 1883.

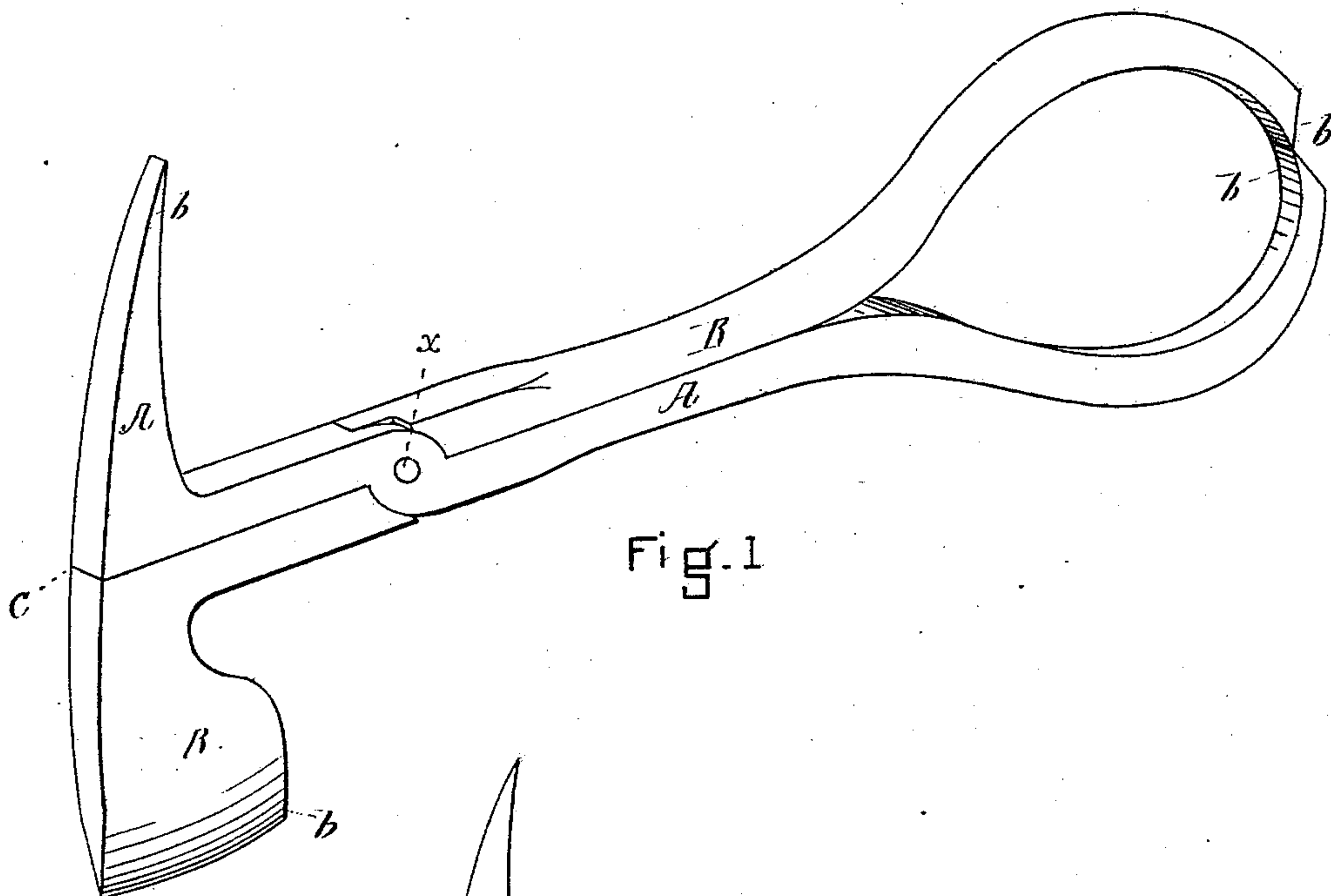


Fig. 1

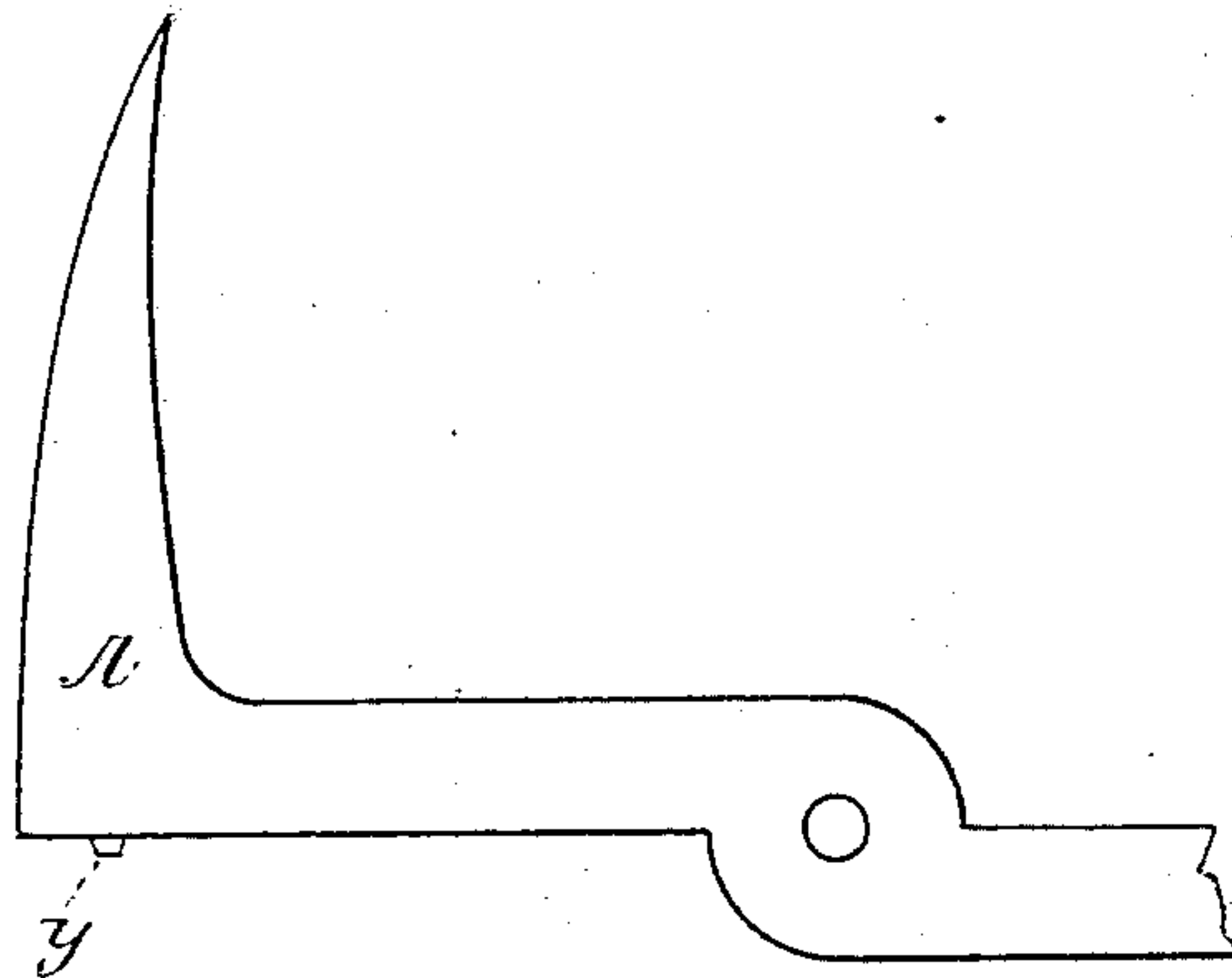


Fig. 2.

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COMBINATION ICE-TOOL.

SPECIFICATION forming part of Letters Patent No. 277,334, dated May 8, 1883.

Application filed March 17, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. PATTEN, a citizen of the United States, residing in the town of Holbrook, in the county of Norfolk, in the State of Massachusetts, have invented a new and useful Improvement in Combination Ice-Tools, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which like letters indicate corresponding parts.

My invention relates more particularly to improvements in ice-tools consisting of the combination tongs, pick, and hatchet arranged together to form one tool.

Figure 1 represents a general view, in perspective, of my improved ice-tool, in which A is one part, and B the other part. Fig. 2 is a detached view of part A. It consists, essentially, of these two parts united together with a rivet or bolt at *x*, the union being similar to that used in the ordinary tongs. Upon the lower end of each piece I form hooks, which are intended to seize and hold pieces of ice. Upon the other end of piece A, I form a pick, as represented, and on the corresponding end piece, B, I form a hatchet. When the tongs are closed together, it will be observed that the two parts on the upper ends form the head and mutually sustain each other when used as a pick or an ax, and serve also as a head and a handle, which may be grasped at each side in lifting pieces of ice grasped by the tongs.

The line *c* represents the point of union of the two parts of the head and the upper ends of the tool.

The tool is made out of metal, and where the points are intended to be used is preferably formed of steel, or of iron with steel points, as indicated by *b b b b*.

The peculiar advantage of this form of tool is apparent, as a large leverage is obtained in seizing and holding the ice, and enables the user to seize either side of the head—that is, the pick side or the hatchet side—with one hand, and at the same time securely retain the ice which is between the tong-points.

There being but two pieces, aside from the rivet or bolt connecting the parts, they are easily constructed and very strong, and so simple that it is impossible to injure them by rough

usage, so that they will not answer for what is intended.

In using the tool as a hatchet or pick, of course the operator will seize the tool immediately above the curve of the tonged end, and thus the upper end is firmly joined together and additional strength imparted to such parts.

I am aware that ice-tools have been made in which the principal parts—to wit, the tongs, the pick, and the hatchet—have been united in one tool. Therefore I do not claim any novelty in the combination of these three devices; but my invention consists more particularly in forming the parts of two main pieces and uniting them in the manner I have described, and with the particular results and desirable consequences hereinbefore set forth.

In making very large sizes of this tool a small pin, dowel, or projection may be cast or otherwise formed on one of the pieces forming the combined head, as represented in Fig. 2, *y*; or this stay-pin, dowel, or projection may be added in any convenient manner. Of course the opposite corresponding part of the tool would be formed with a recess to receive the projecting pin or dowel. This feature, however, is not essential to my present invention.

Having described fully my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A combination ice-tool consisting of the parts A and B, united with the bolt *x*, and formed with tongs at one end and a pick and hatchet at the opposite end, substantially as and for the purposes described.

2. A bifurcated combination ice-tool consisting of the parts A and B, suitably united together, and provided with tongs at one end and a pick and hatchet at the other end, substantially as and for the purposes described.

3. In a combination ice-tool, the bifurcated head consisting of a pick and hatchet adapted to be united together by the closing of the tonged end, substantially as and for the purposes set forth.

GEO. M. PATTEN.

Witnesses:

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