

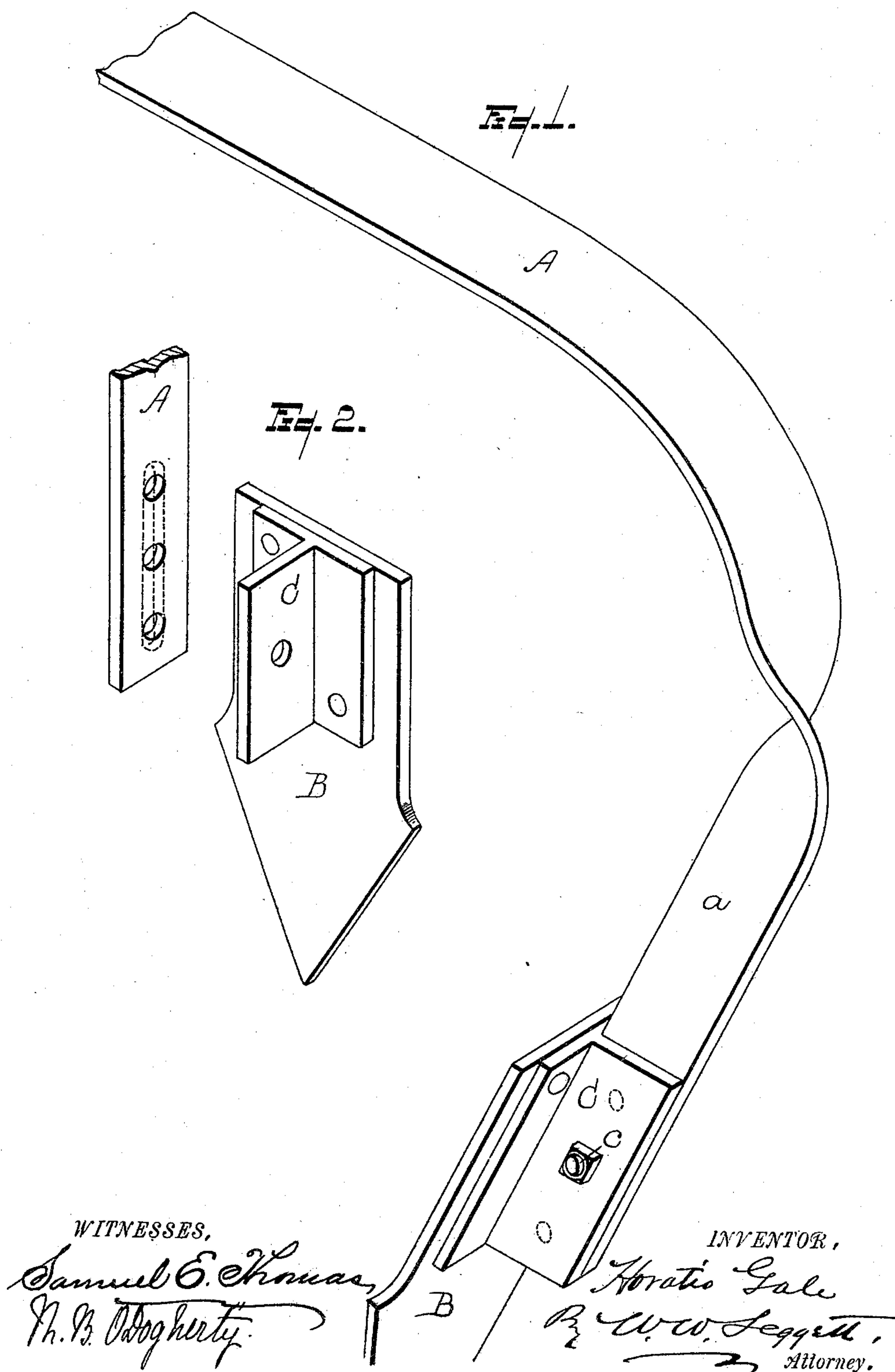
(No Model.)

H. GALE.

SPRING TOOTH FOR CULTIVATORS.

No. 395,562.

Patented Jan. 1, 1889.



WITNESSES,

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UNITED STATES PATENT OFFICE.

HORATIO GALE, OF ALBION, MICHIGAN, ASSIGNOR TO THE ALBION MANUFACTURING COMPANY, OF SAME PLACE.

SPRING-TOOTH FOR CULTIVATORS.

SPECIFICATION forming part of Letters Patent No. 395,562, dated January 1, 1889.

Application filed October 8, 1888. Serial No. 287,517. (No model.)

To all whom it may concern:

Be it known that I, HORATIO GALE, a citizen of the United States, residing at Albion, county of Calhoun, State of Michigan, have invented
5 a certain new and useful Improvement in Spring-Teeth for Cultivators; and I declare the following to be a full, clear, and exact description of the same, such as will enable
10 others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents a perspective view of my improved spring-tooth for cultivators.
15 Fig. 2 represents parts in detail.

It has been found in the use of spring-teeth in cultivators that when the shoe is fastened to the broad surface of the spring-shank the latter, presenting a broad surface to the front,
20 serves to accumulate grass, weeds, and other débris; and it is the object of my improvement to obviate this difficulty. This I accomplish by turning a portion of the spring-shank a short distance above the shoe at right angles
25 to itself, thus causing the tooth to present a narrow edge rather than a broad surface to the front.

In the drawings, A represents the spring-shank of my improved spring-tooth, and B the
30 shoe, which may be any desired shape, or a small share, if preferred. The shank A is at a desirable point above the shoe turned at right angles to itself, thus causing the portion *a* to present a narrow edge rather than a broad
35 surface to the front. Attached to the lower end of the spring-shank A is a T-shaped block, C, to which the shoe B may be bolted, riveted, or otherwise fastened. It will be seen that

but one bolt, *c*, is necessary to attach this block C to the spring-shank, since it has a firm
40 bearing both on the side and edge of the spring-shank when held in place by the single bolt.

If desired, the spring-shank may be provided with an elongated opening, or with two
45 or more holes, through which the bolt *c* may pass, thus permitting the shoe to be adjusted to a higher or lower level, as desired.

A prominent feature of my improvement is the provision on the shoe of a web or flange
50 projecting to the rear and perforated for the passage of the fastening-bolt, and in connection therewith the extremity of the spring-tooth turned so as to present its edges toward
55 the front and rear. Of course any construction whereby this web or flange is provided would be contemplated by my invention, whether it were made integral with the shoe or blade itself or provided by the addition to
60 the shoe or blade of a T-shaped block, as shown, or any other suitably-shaped block.

What I claim is—

A spring-tooth for cultivators, consisting of a spring-shank turned near its lower end at
65 right angles to itself so as to present its edge to the front, and a shoe having a web or flange projecting back at right angles to its face parallel with and adapted to be fastened to
70 the twisted end of said spring-shank, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

HORATIO GALE.

Witnesses:

ISAAC N. MILLER,
CHAS. B. GALE.