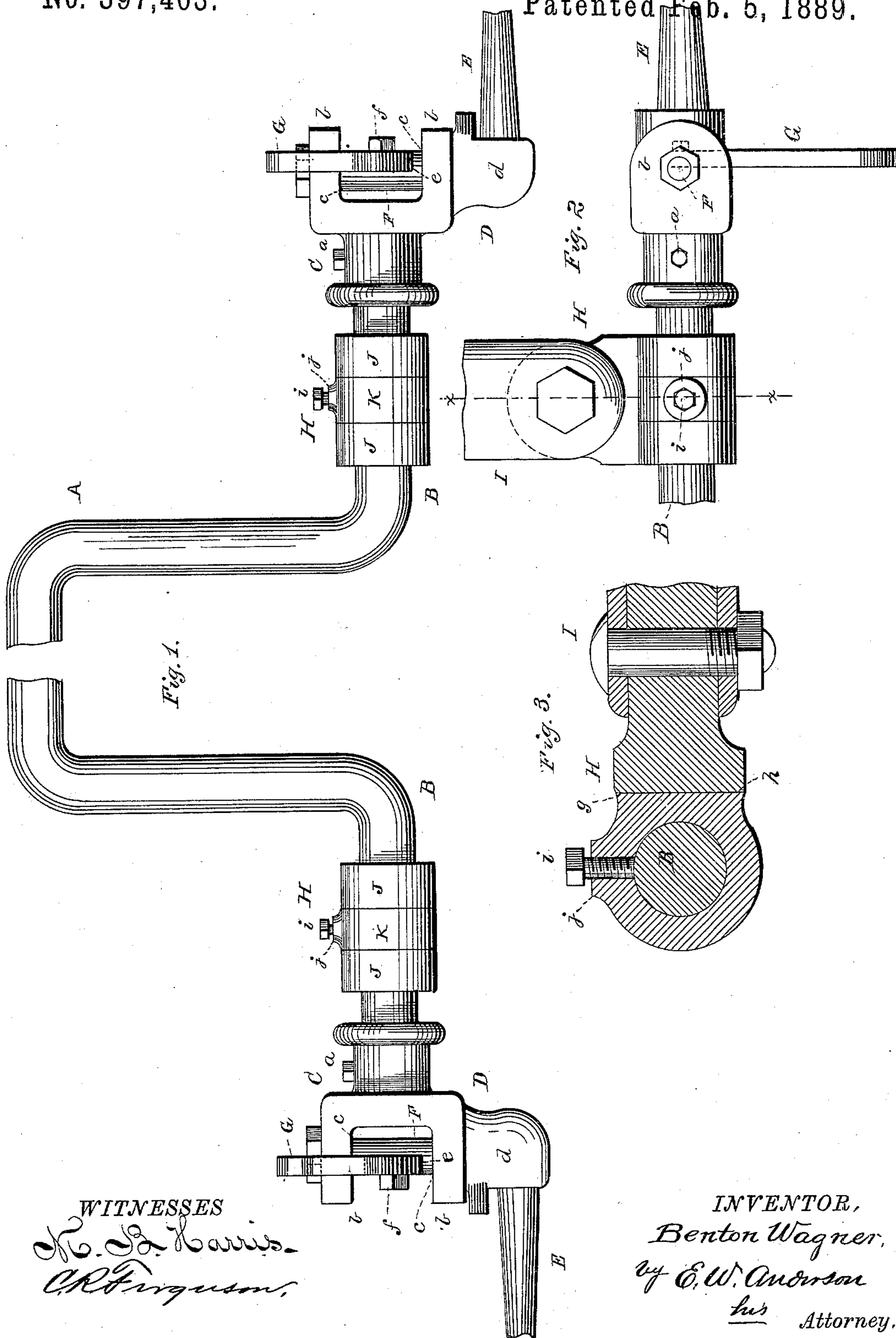


(No Model.)

B. WAGNER.
CULTIVATOR ATTACHMENT.

No. 397,403.

Patented Feb. 5, 1889.



WITNESSES
H. D. Harris.
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UNITED STATES PATENT OFFICE.

BENTON WAGNER, OF MILTON, INDIANA.

CULTIVATOR ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 397,403, dated February 5, 1889.

Application filed May 26, 1888. Serial No. 275,175. (No model.)

To all whom it may concern:

Be it known that I, BENTON WAGNER, a citizen of the United States, and a resident of Milton, in the county of Wayne and State of Indiana, have invented certain new and useful Improvements in Corn-Cultivator Attachments; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of my invention, and is a front elevation thereof. Fig. 2 is a plan view of spindle and connections; and Fig. 3 is a transverse section on the line *x x*, Fig. 2.

The invention relates to improvements in arch-connections for cultivators; and it consists in the construction and novel combination of parts, as hereinafter set forth.

Referring to the drawings, A designates the arch, preferably of round iron, having the outwardly-turned ends B, which enter sockets C on the spindle-heads D. The end is held securely in the socket by the set-bolt *a*, which passes through a threaded opening in the socket. The spindle-head D has outwardly-projecting lugs *b*, provided with aligned vertical openings *c*.

E is the wheel-spindle having the enlarged portion *d* and the integral journal-bolt F, turned upwardly at right angles to the spindle and passing through the openings *c*.

G is the draft-bar having its rear squared end seated in a recess, *e*, in the bolt F, where it is firmly held by the threaded bolt *f*.

H designates a coupling-block for attaching the gang I to the outwardly-turned ends B of the arch. Said coupling-block H has the sleeves J, designed to slide upon the portion B of the arch, and a stop-collar, K, between the sleeves, is designed to hold the coupling in any adjusted position. One side of the collar K is flattened, as at *g*, and comes in contact with the flat portion *h* of the coupling, and a set-screw, *i*, through the boss *j* holds the collar from turning.

It will be observed that the invention is simple and durable. The wheels and spindles may be turned short when reversing or changing the direction of the gang.

Having described my invention, what I claim is—

1. The combination of the arch having the outwardly-turned ends B, the spindle-head D, having the lugs provided with the vertical aligned openings, the sockets C on said spindle-heads engaging the outwardly-turned ends B, and the set-screw, substantially as specified.

2. The combination, with the arch, of the wheel-spindle having the enlarged head and the socket, the journal-bolt passing through vertical aligned openings in the spindle-head and having the recess *e*, and the draft-bar having its rear squared end seated in said recess and secured by a set-screw, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

BENTON WAGNER.

Witnesses:

GEORGE BRONSON;
R. MORGAN.