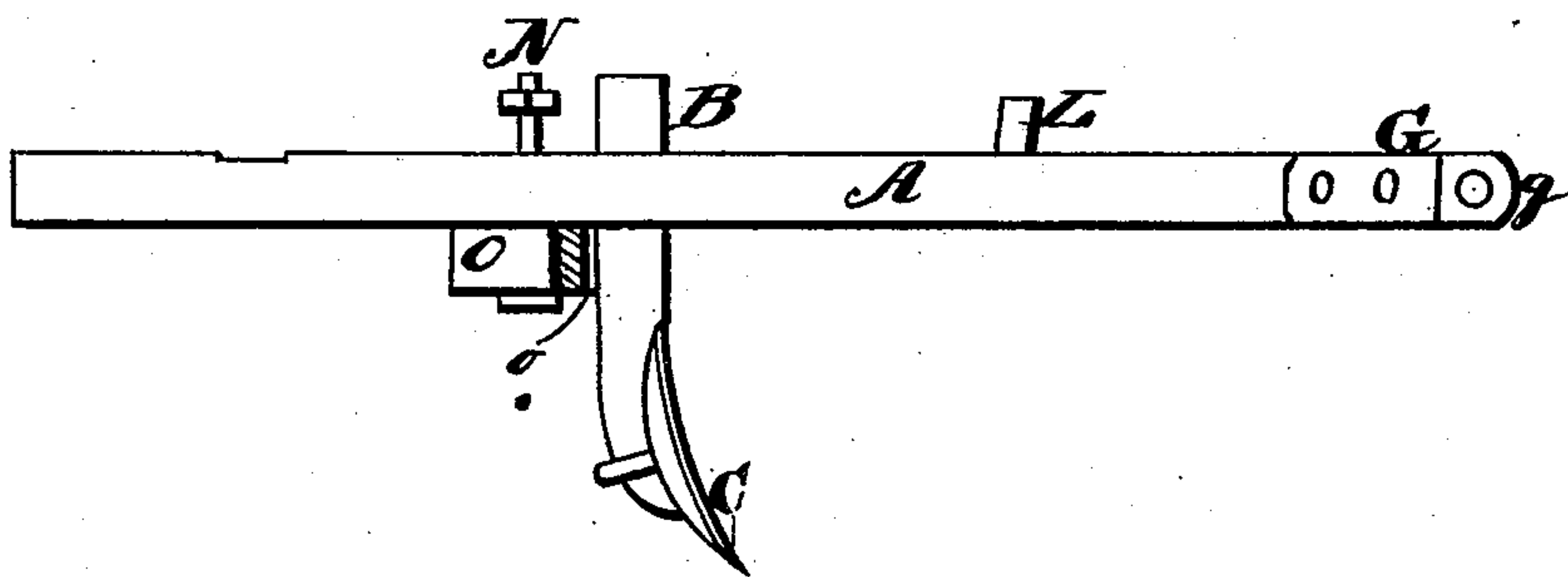
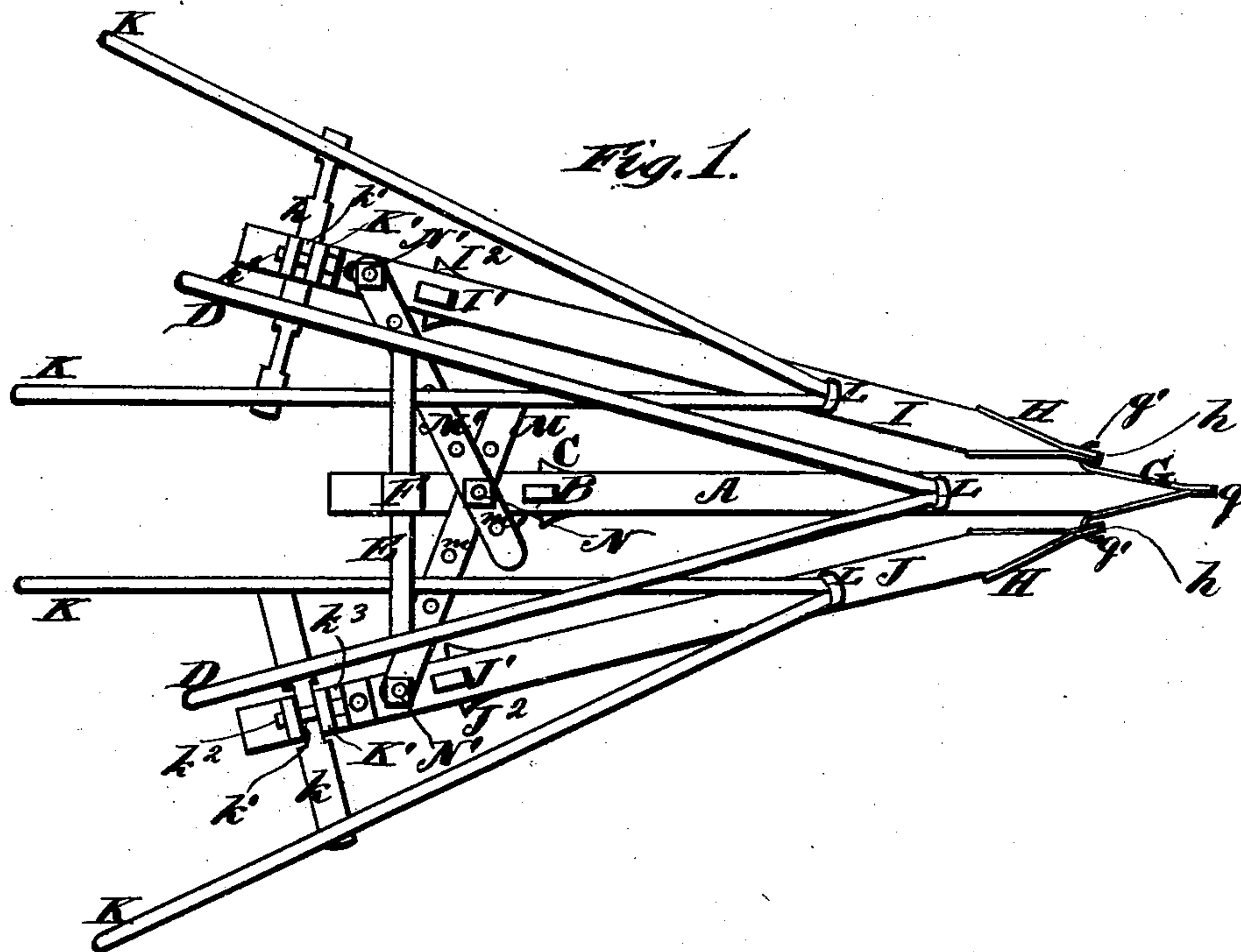


A. BUSENGER.  
CULTIVATORS.

No. 190,280.

Patented May 1, 1877.



WITNESSES

*Robert Everett*  
*George E. Upman*

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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

ANTHONY BUSENGER, OF MILL BROOK DEPOT, VIRGINIA.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 190,280, dated May 1, 1877; application filed March 17, 1877.

*To all whom it may concern :*

Be it known that I, ANTHONY BUSENGER, of Mill Brook Depot, in the county of Augusta and State of Virginia, have invented a new and valuable Improvement in Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a plan view of my cultivator, and Fig. 2 a side elevation of one of the cultivator-beams with shovel attached.

This invention relates to that class of cultivators wherein several detachable plows are connected together and provided with means for expanding their diverging rear ends; and it consists in the construction and arrangement hereinafter particularly described and claimed.

In the accompanying drawings, A designates the central plow-beam of my cultivator, which is provided with a standard, B, carrying a plow-point, C, and with plow-handles D connected by cross-piece E, which is supported by vertical post F. The tapering front end of this beam A is provided with a metal cap or "buck-head," G, having a perforated draft-attaching front extension, g, and two rearwardly-extending hooks, g' g'. By means of these hooks and the perforated extensions h of buck-heads or caps H two other plow-beams, I J, are attached one on each side of said main plow-beam. Beam I is provided with standard I<sup>1</sup> and plow I<sup>2</sup>, and beam J is provided with standard J<sup>1</sup> and plow-point J<sup>2</sup>. Each of these side plow-beams has a pair of handles, K, connected, respectively, by cross-bars k that are supported by posts or uprights K'. The converging diminished front ends of said handles set into eyes or loops L on the upper sides of the respective beams, and the said uprights K' are slotted on top at k<sup>1</sup>, to receive the respective cross-bars k, a locking-pin, k<sup>2</sup>, being passed through each cleft upper end above the cross-bar. After withdrawing said pins k<sup>2</sup>

the said handles may be readily removed from their respective plows. Uprights K' are hinged to their respective beams at k<sup>3</sup> so as to fold down forward out of the way after the plow-handles have been removed, as stated. The divergence of side beams I and J is regulated by adjusting-plates M M', each of which has a series of perforations, m or m'. One of said perforations, m, of plate M, is made to coincide with a perforation, m', of plate M', and said plates are then clamped to main beam A by means of a bolt, N. Similar bolts N' attach the outer ends of said adjusting-plates to the said side beams near the rear ends thereof. Said bolts N N' also serve to secure to the under sides of said beams blocks O, which are recessed in front at o, so as to partly receive and brace the backs and sides of the plow-standards above described.

Said beams may be detached and used separately with their handles, standards, &c., as plows. The main beam may also be removed and the side ones used for straddling rows of corn. Harrow-points may be substituted for the plows. Additional beams may be attached, if desired. Various changes may be made without departing from the spirit of my invention.

What I claim as new, and desire to secure by Letters Patent, is—

The plow-beam A, constructed as described, and provided with the handles D, in combination with the plow-beam J, provided with the eye L, perforated plate H, of plow-beam J, and upright K', hinged to the beam J at k<sup>3</sup>, whereby the cultivator may be transformed into a double-shovel plow with a single pair of handles, and the upright K' folded down on its plow-beam out of the way, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ANTHONY BUSENGER.

Witnesses:

C. M. CUSHING,

T. D. WOODWARD.