

(No Model.)

J. TARRANT.
GRAVITY DOG FOR GANG EDGERS.

No. 491,201.

Patented Feb. 7, 1893.

Fig. 1.

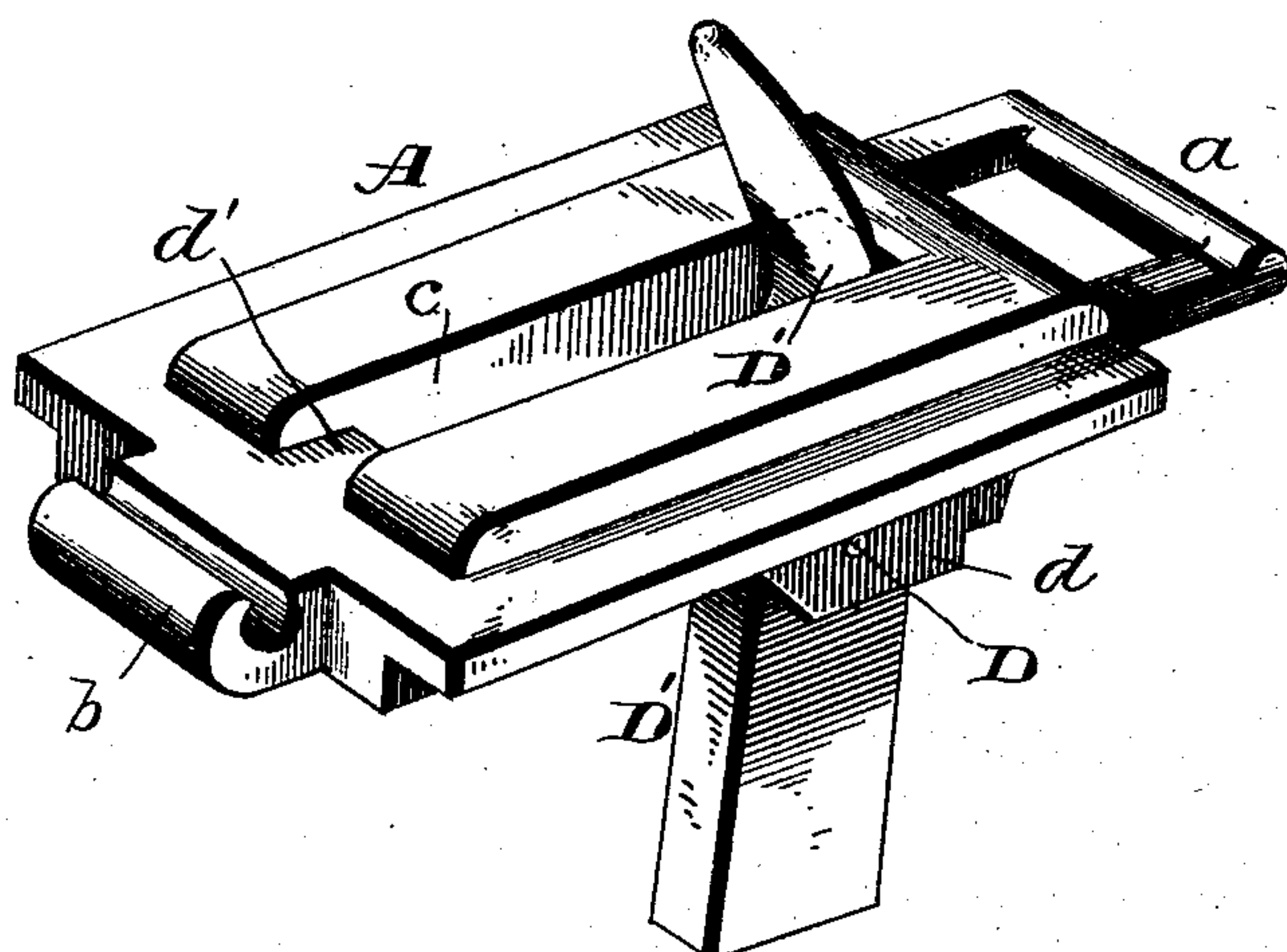


Fig. 2.

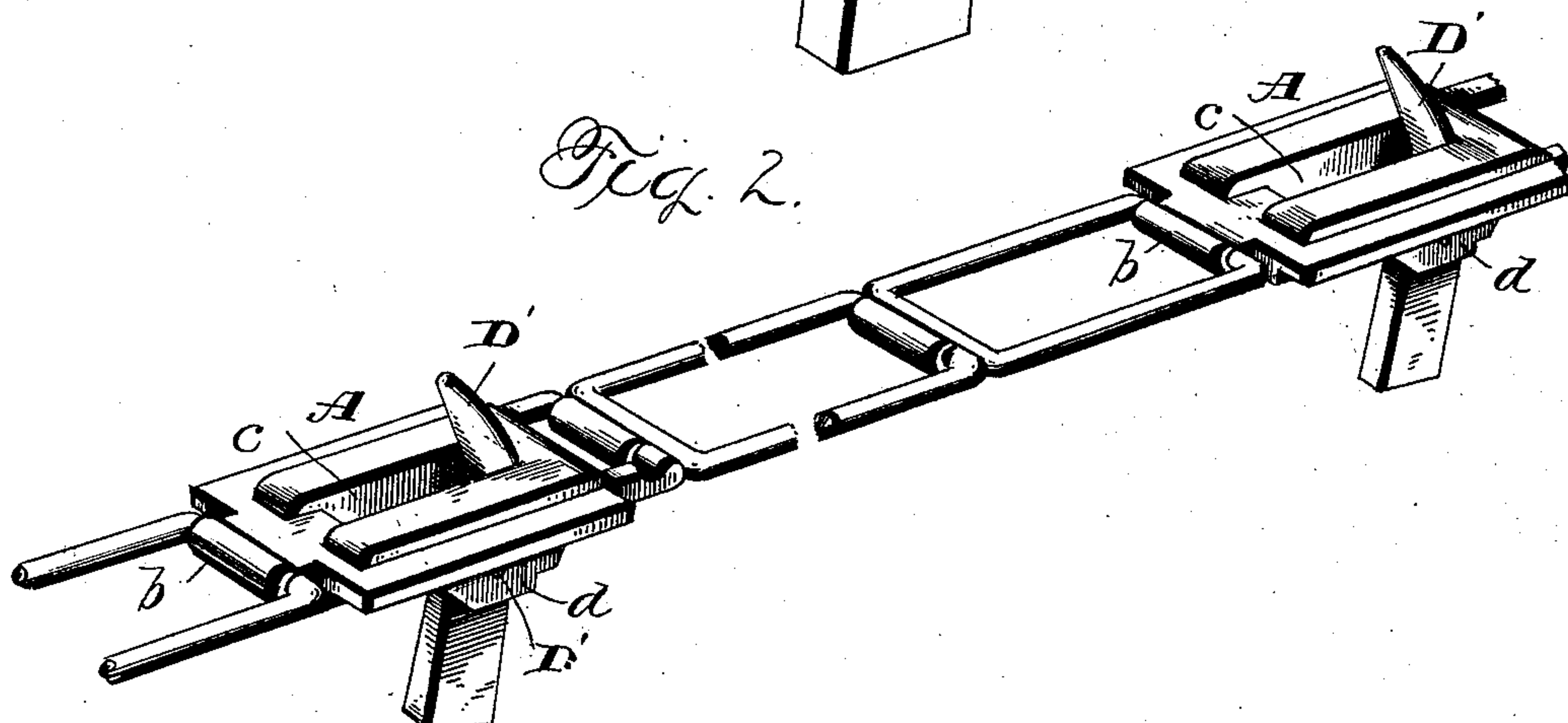
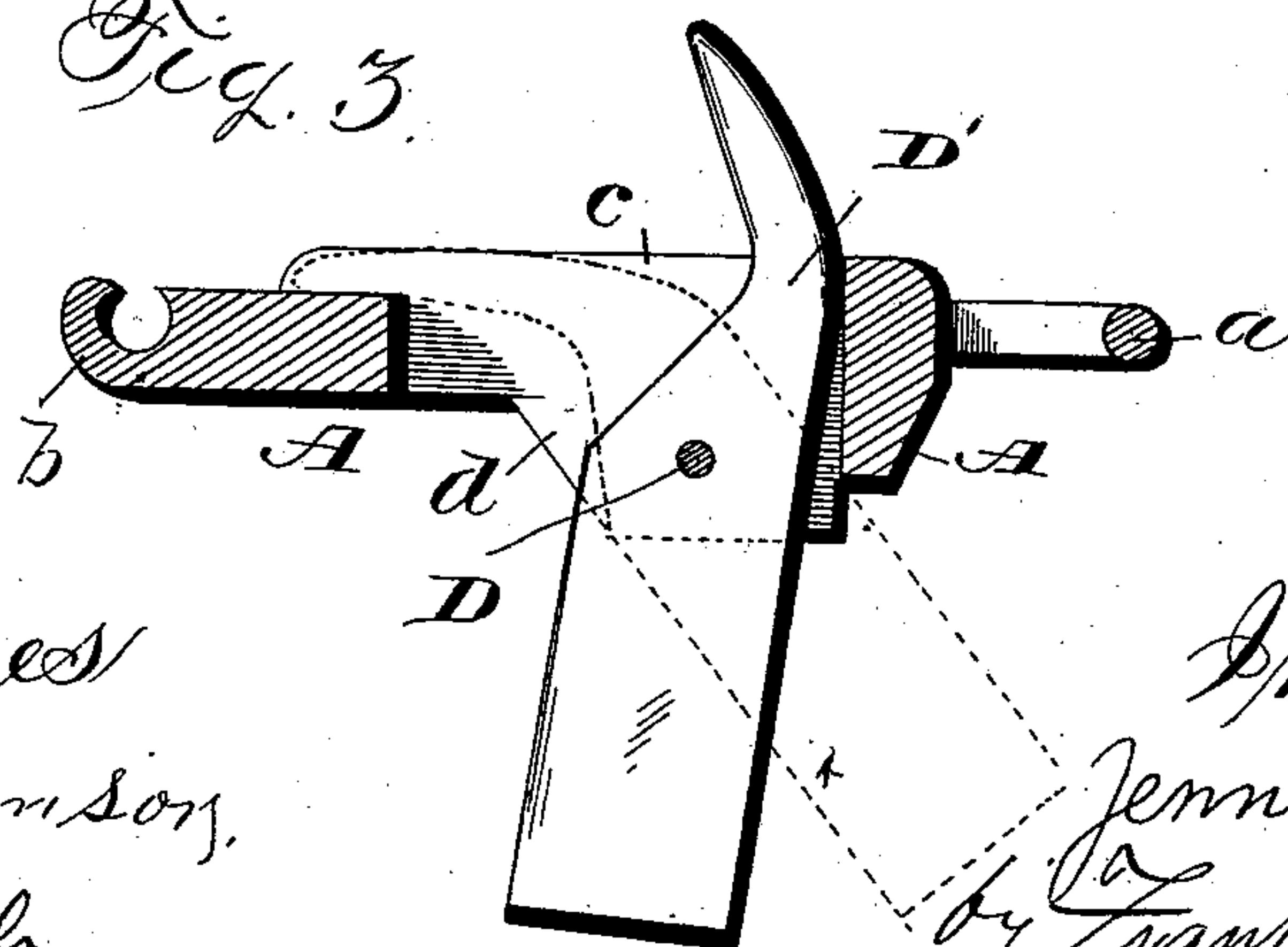


Fig. 3.



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UNITED STATES PATENT OFFICE.

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GRAVITY-DOG FOR GANG-EDGERS.

SPECIFICATION forming part of Letters Patent No. 491,201, dated February 7, 1893.

Application filed August 16, 1892. Serial No. 443,215. (No model.)

To all whom it may concern:

Be it known that I, JENNIE TARRANT, a citizen of the United States, residing at Onalaska, in the county of La Crosse and State of Wisconsin, have invented certain new and useful Improvements in Gravity-Dogs for Gang-Edgers; 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 the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in links for chains designed more especially for use in connection with gang edgers, and it has for its objects among others to provide an improved link with a self-acting or gravity dog for carrying lumber through a gang edger in a perfectly straight manner thereby insuring straight and perfect and uniform work. It is intended to employ these links in a chain, the said links being arranged the requisite distance apart and the dogs in the links are so pivoted and arranged as to automatically fold out of the way at the proper time. The link is simple in its construction, durable, and in practice has proved most efficient for the purpose for which it is designed.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claim.

As the invention in the present instance resides solely in the construction of the link with its self-acting dog it is not thought necessary to illustrate the gang edger with which it is primarily designed to be used. It is applicable to any and all of the uses to which it may be put.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which

Figure 1 is a perspective view of my improved link with its dog. Fig. 2 is a like view of a portion of a chain showing a number of the links coupled therein. Fig. 3 is a central

vertical longitudinal section through one of the links.

Like letters of reference indicate like parts throughout the several views in which they appear.

Referring now to the details of the drawings by letter, A designates one of my improved links which is substantially rectangular in its general form and at one end is formed or provided with a loop *a* for engagement with the hook of the adjacent link, and at the other end it is formed or provided with a hook to engage the loop of the next link, the hook being designated by the letter *b*. The body portion of the link is raised above and extended below the loop and hook as shown and through this body portion is formed a longitudinal slot or recess *c* extending from top to bottom as seen in Fig. 3 and upon the under face are provided the lugs or ears *d* upon opposite sides of the said slot and in these ears is pivoted upon a suitable pin *D* the dog *D'* the pivot being located below the bottom plane of the body portion and the portion of the dog below the pivot being weighted or enlarged so as to cause the dog to normally stand vertically; the upper end of the dog is curved or slightly hooked as shown for the purpose of better holding the lumber and is of such a length relatively to the slot as to close down within the same as shown by dotted lines in Fig. 3, with its end resting upon the cross portion *d'* of the body portion of the link. The dog should be of a thickness so much less than the width of the slot as to allow the dog to work freely in the slot.

In Fig. 2 is shown a portion of a chain comprising a number of these links, and in practice it is proposed to couple them in the chain at the desired distances apart, depending generally upon the character of machine with which they are to be used and the work to be done. They may be used in connection with a chain composed of links of any form of construction with which they can be coupled; it is not necessary that the remaining links of the chain be of the same construction as that above described minus the dog, as they can be easily and quickly coupled into a chain having links of any kind with loops and hook

to engage the corresponding parts on the improved link which constitutes the present invention.

What I claim as new is;—

- 5 A chain link having a longitudinal slot, and a weighted dog pivoted to work in said slot and to automatically fold therein and to be stopped by the engagement of its upper end

with the front cross portion of the link, as set forth. 10

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

JENNIE TARRANT.

Witnesses:

FRANK POOLER,
J. M. PIERCE.