

No. 741,851.

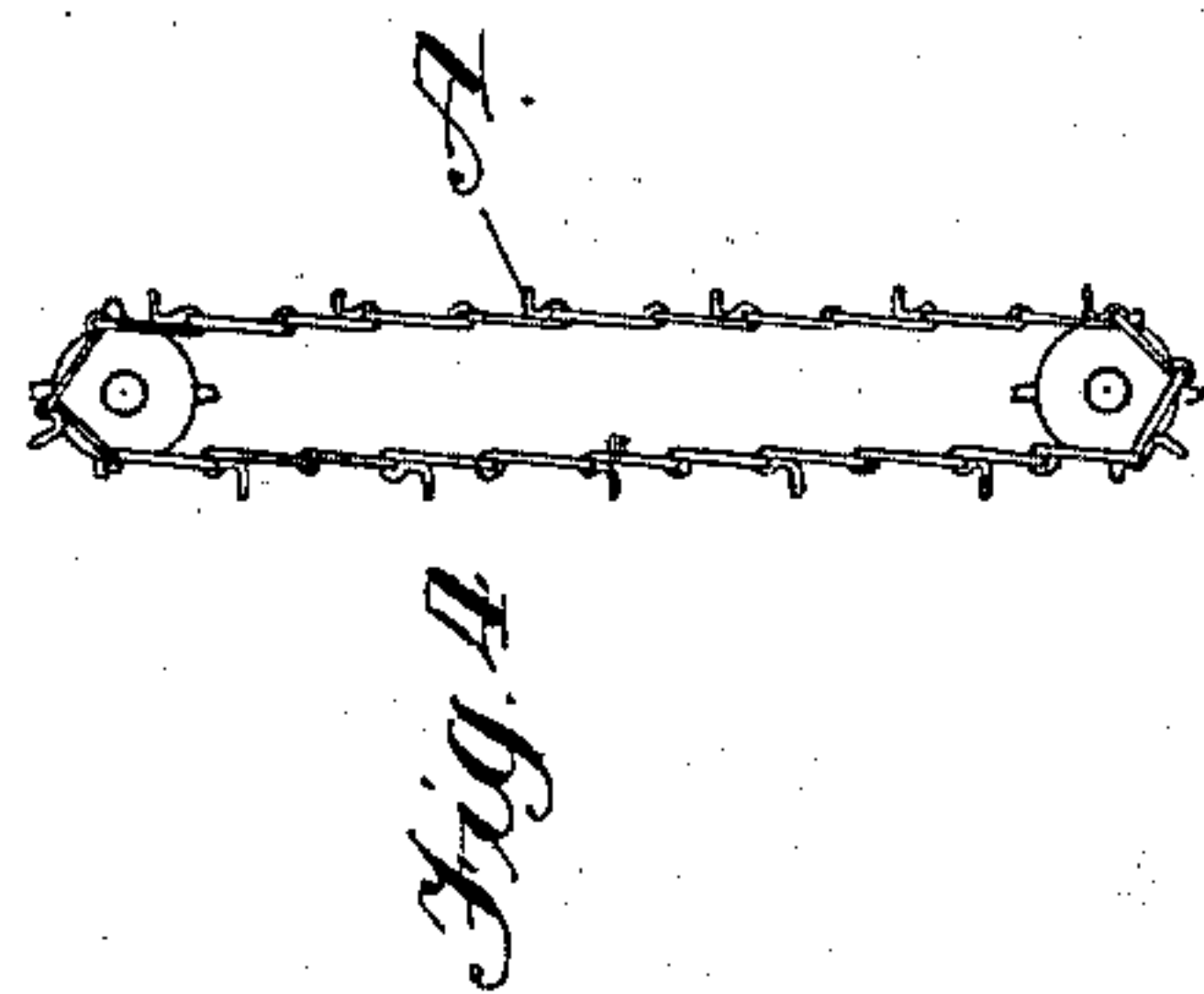
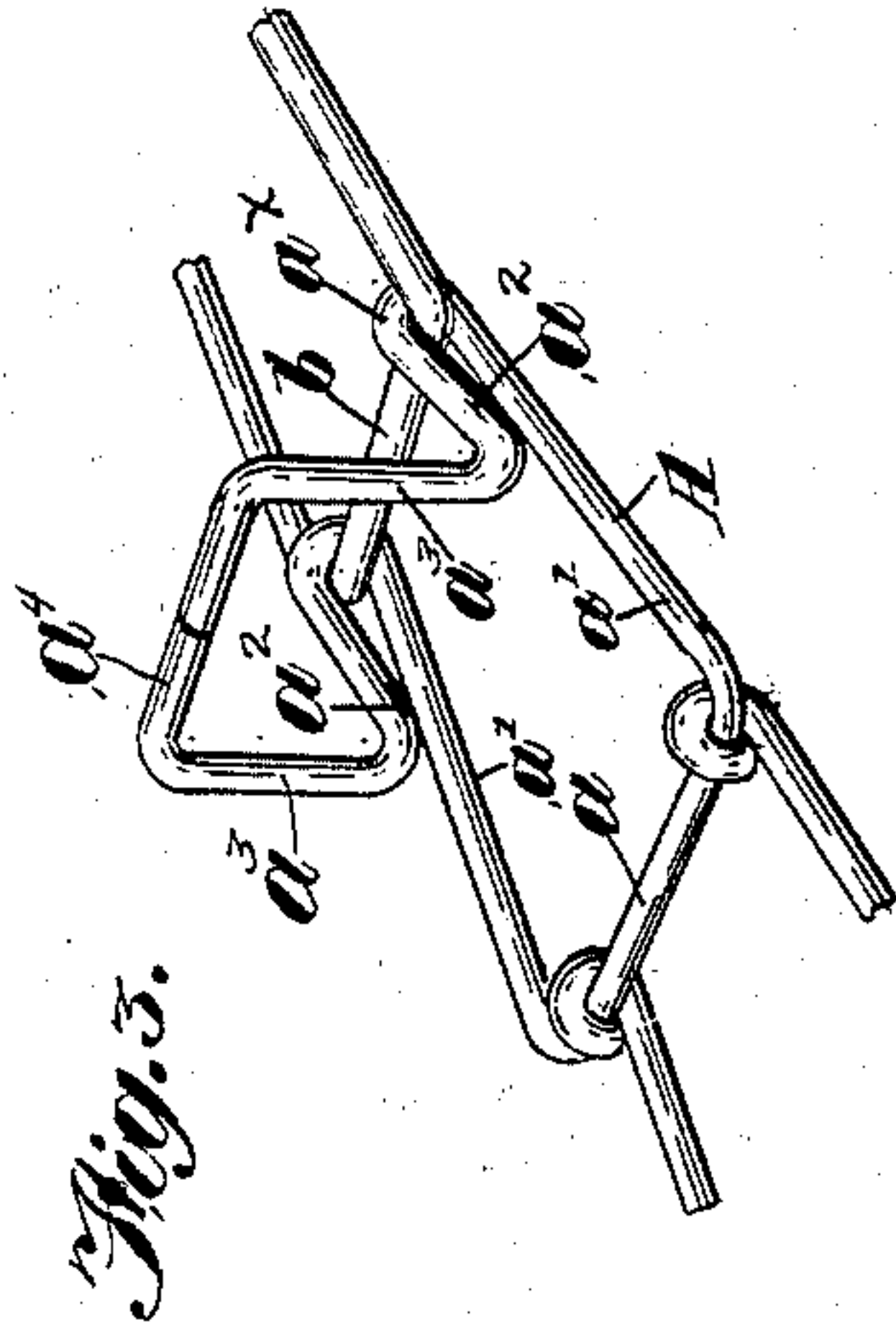
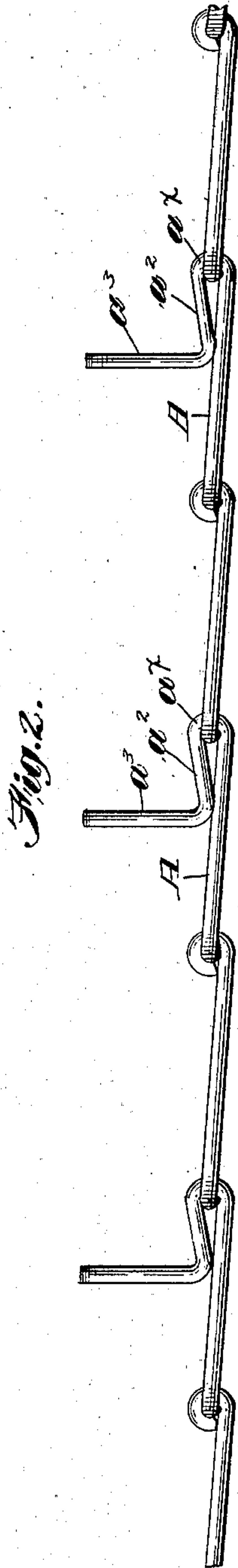
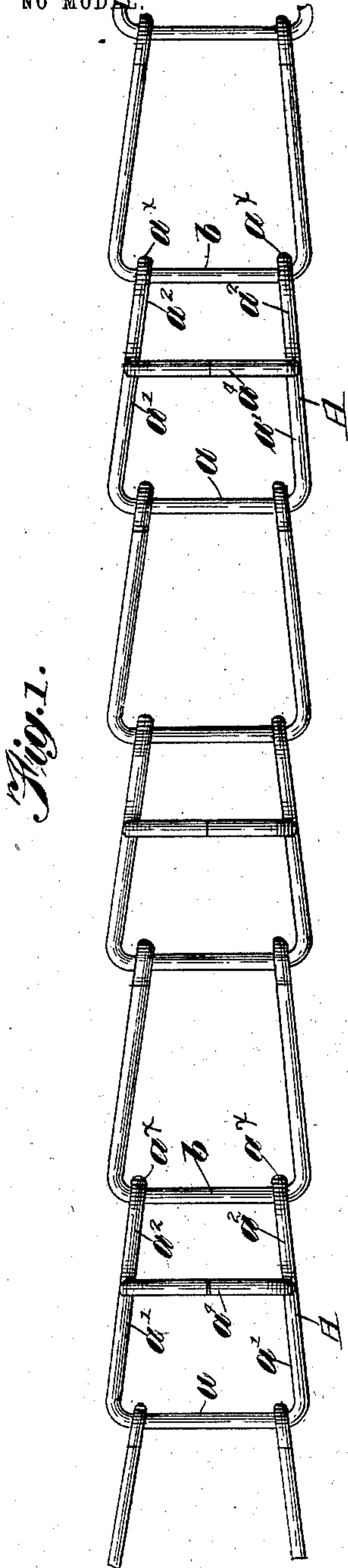
PATENTED OCT. 20, 1903.

A. D. SWEGLE.

CHAIN FOR CONVEYERS, ELEVATORS, &c.

APPLICATION FILED JULY 18, 1902.

NO MODEL.



Witnesses:

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CHAIN FOR CONVEYERS, ELEVATORS, &c.

SPECIFICATION forming part of Letters Patent No. 741,851, dated October 20, 1903.

Application filed July 18, 1902. Serial No. 116,133. (No model.)

To all whom it may concern:

Be it known that I, ABRAM D. SWEGLE, a citizen of the United States, residing at Fayette, in the county of Howard and State of Missouri, have invented certain new and useful Improvements in Chains for Conveyers, Elevators, &c., of which the following is a specification.

In mechanically handling grain, vegetables, dirt, liquid substances, small parcels, containing-receptacles, and numerous other articles and substances endless conveyers or carriers are extensively used. These conveyers frequently consist of a chain in the nature of a drive-chain or sprocket-chain, embracing suitably-arranged wheels of proper construction and buckets or platforms or some other means for supporting the articles to be handled. In grain-elevators, chain-pumps, dredges, and other machines for handling substances that can easily be scooped up buckets are used. In elevators for carrying light parcels from floor to floor platforms are used. In elevators for hods the chain is simply provided with means adapted to be engaged by a hook or device on the hod.

The object of the present invention is to provide a chain of such construction that it will meet all of these requirements and many more, and to this end I construct the chain of links any desired number of which are provided with laterally-projecting loops which are adapted to serve as the means for attaching or supporting a bucket, or as the means for attaching or supporting the platform, or as the means for engaging a hook or other device on the hod or other receptacle, or which in themselves constitute the means for carrying or feeding along the articles to be handled.

In the accompanying drawings, which are made a part of this specification, Figures 1 and 2 are respectively a face view and an edge view of a portion of a chain embodying the invention. Fig. 3 is a perspective view of a fragment thereof. Fig. 4 is a perspective view, on a small scale, of an elevator or a conveyer arranged in vertical position having a chain embodying the invention.

The chain comprises a number of links, some of which may be of any desired construction, while others are constructed as shown at A. Any desired number of links of this construction may be incorporated in the chain. For the purposes of this application it will be sufficient to describe one of such links and its relation to the contiguous portions of the two adjacent links. It comprises a cross-piece a , which is disposed transversely with respect to the length of the chain, two side pieces a' , which converge slightly and are reflexed at a^x , so as to embrace the cross-piece b of the adjacent link, portions a^2 , which lie in the plane of the sides a' , and a laterally-projecting loop comprising the side pieces a^3 and a cross-piece a^4 . Preferably the side pieces a^3 are parallel with each other and at right angles to the cross-piece a^4 . The loop thus formed may be of any desired size to meet the requirements of particular cases. The entire link is preferably made of a single piece of wire bent to the shape described and having its extremities brought together at the center of the cross-piece a^4 and permanently secured by brazing or in any other suitable way.

In my application of even date herewith, Serial No. 116,130, I have shown and described a conveyer embodying this invention arranged in a horizontal position and adapted to support and handle small parcels. The chain is arranged so that the loops project outward.

When buckets are used, they may be secured to the loops either permanently or removably. Each may be slipped through the loop, so that the loop surrounds three sides of it, or it may be arranged in any other desired manner. Where a platform is used, it may be secured to the loop so as to occupy a position perpendicular to the length of the chain.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. A chain of the class described having a link comprising the cross-piece, a , two side pieces reflexed to embrace the cross-piece of

the adjacent link, portions, a^2 , extending lengthwise of the chain, and a portion connecting the extremities of the portions, a^2 , substantially as described.

- 5 2. A chain of the class described having a cross-piece, a , two side pieces reflexed to embrace the cross-piece of the adjacent link, the portions, a^2 , lying over the sides, a' , and

a loop comprising the side portions, a^3 , joining the portions, a^2 , and a cross-piece, a^4 , joining the side pieces, a^3 , substantially as described.

ABRAM D. SWEGLE.

Witnesses:

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