

No. 861,484.

PATENTED JULY 30, 1907.

I. F. STEWART.  
ENDLESS CARRIER.  
APPLICATION FILED NOV. 19, 1906.

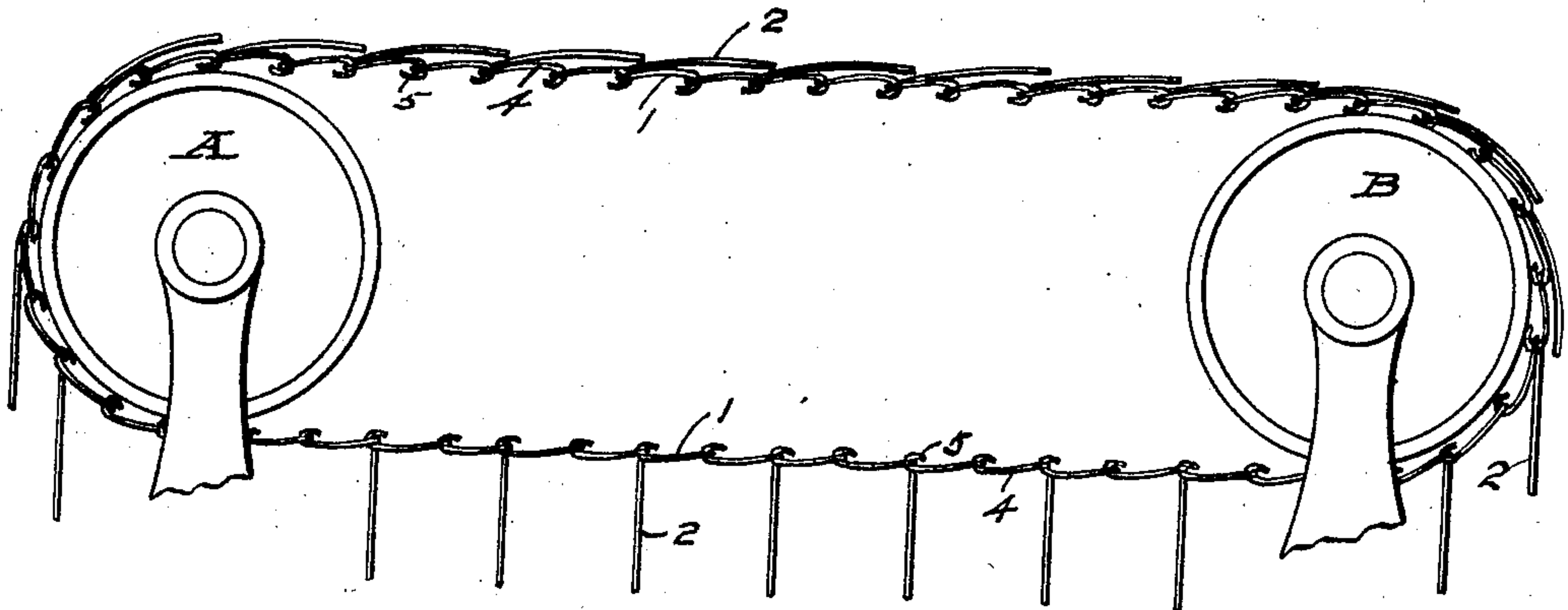


Fig. 1.

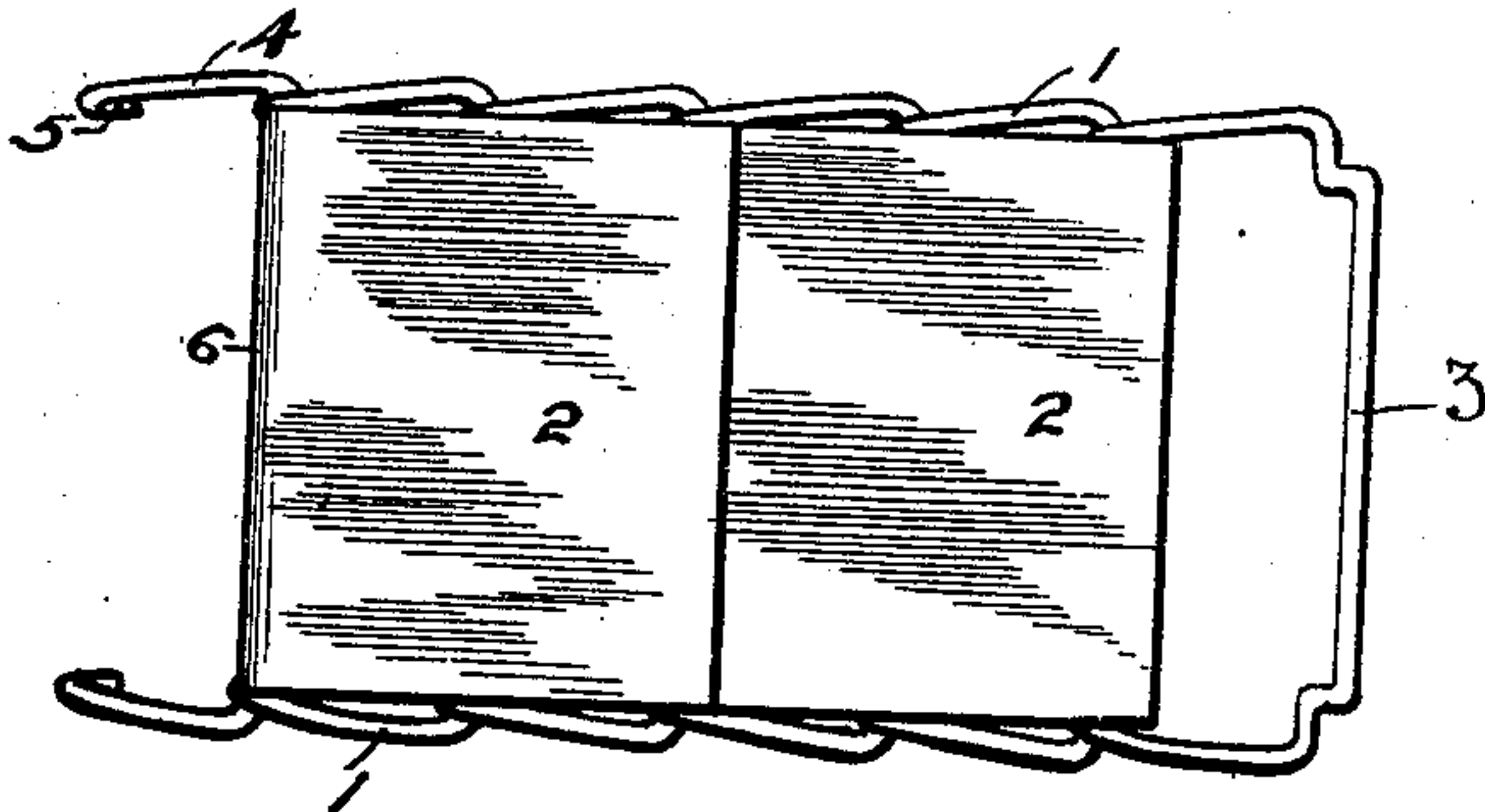


Fig. 2.

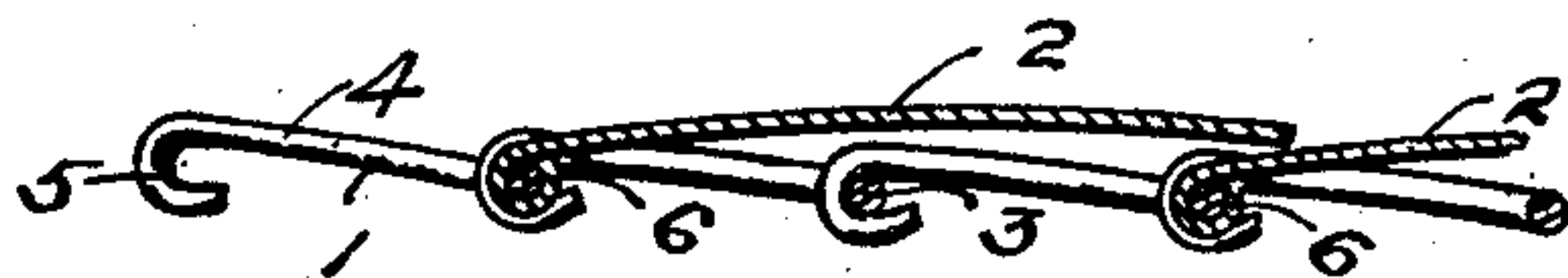


Fig. 3.

Witnesses  
Charles Parker.  
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# UNITED STATES PATENT OFFICE.

ISAAC F. STEWART, OF ELIDA, OHIO.

## ENDLESS CARRIER.

No. 861,484.

Specification of Letters Patent.

Patented July 30, 1907.

Application filed November 19, 1906. Serial No. 344,125.

To all whom it may concern:

Be it known that I, ISAAC F. STEWART, a citizen of the United States, residing at Elida, in the county of Allen and State of Ohio, have invented certain new and useful Improvements in Endless Carriers; 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.

My invention is an improved endless carrier comprising an endless chain provided with pivotally mounted flaps, which lie in a substantially horizontal position on the upper lead of the chain and partly overlap each other to form a carrying belt or apron, and drop to a vertical position on the lower lead of the chain to prevent material from gathering on the inner side of the carrier, and it consists in the construction and combination of devices hereinafter described and claimed.

In the accompanying drawings,—Figure 1 is a side elevation of an endless carrier embodying my improvements; Fig. 2 is a detail top plan view of the same; and Fig. 3 is a detail longitudinal sectional view of the same.

My improved endless carrier comprises an endless chain 1 and flaps 2, which are pivotally mounted and are connected to and carried by certain of the links of the chain. Each of the chain links is made from a single piece of wire or rod bent to form the straight intermediate portion 3 and the arms 4 at the ends thereof, the end portion of the wire or rod forming said arms being bent to form eyes 5. The intermediate portion 3 of each link is pivotally mounted in the eyes 5 of the next adjacent link, so that the links are flexibly connected together. Certain of the links at suitable distances apart are provided with flaps 2, which are here shown as of rectangular form. These flaps may be made of any suitable material, such as canvas, sheet iron, or leather, and may be either flexible or inflexible. The length of said flaps is such that when they are connected to certain of the chain links, said flaps may partly overlap one another. Each flap has one of its edges, which I will call its front edge, bent around and secured to the intermediate portion 3 of one of the links,

as at 6. The flaps form the effective bottom of the carrier. Those flaps which are on the upper lead of the carrier will by their own gravity dispose themselves in substantially horizontal positions, each flap partly overlapping the next adjacent flap, so that the said flaps become effective to carry the material on the upper lead of the carrier. As the flaps pass over the roller or pulleys *a* at the discharge end of the carrier, they drop by their own gravity into a vertical position and all of the flaps on the lower lead of the carrier remain in such vertical position and open the spaces between them, and hence the accumulation of material on the inner sides of the said flaps corresponding to the inner sides of the carrier is prevented. As the flaps pass up on the opposite pulleys or roller *b*, they reassume their overlapping position, as shown.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by Letters-Patent, is,—

An endless carrier comprising an endless chain composed of links, each of which has a cross bar and arms at an angle thereto, at the ends thereof, having eyes for pivotal engagement with the cross bar of the next adjacent link, and flaps, each pivoted at one end to the cross bar of one of the links, said flaps when on the lower lead of the carrier depending from said lower lead and disposing themselves by gravity in substantially vertical open position; and when on the upper lead of said carrier, disposing themselves in substantially horizontal position, and being of such length as to partly overlap when in such horizontal position.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ISAAC F. STEWART.

Witnesses:

WILLIAM G. JONES,  
JACOB A. GOOD.