

(No Model.)

F. MILLER.
FLIGHT FOR ENDLESS CONVEYERS.

No. 501,289.

Patented July 11, 1893.

Fig. 2.

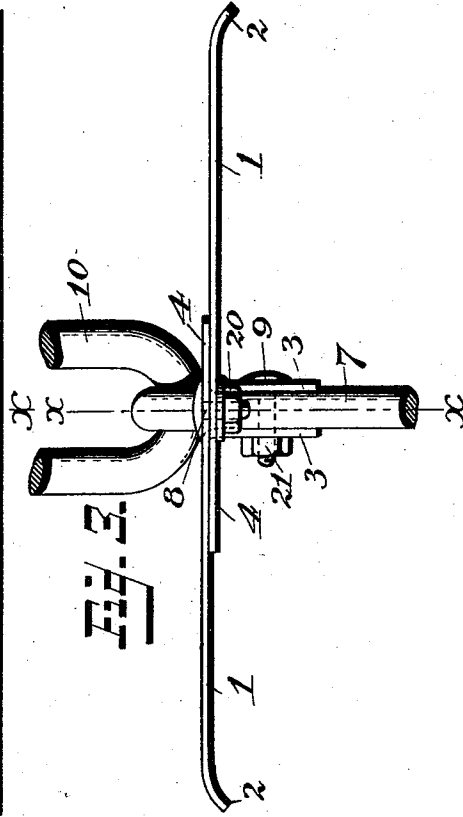
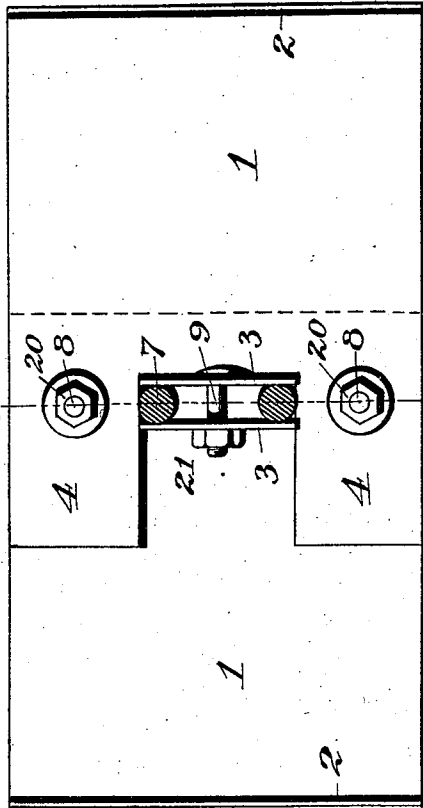
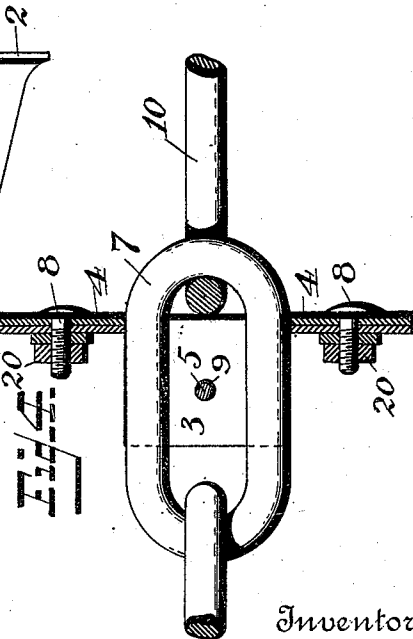
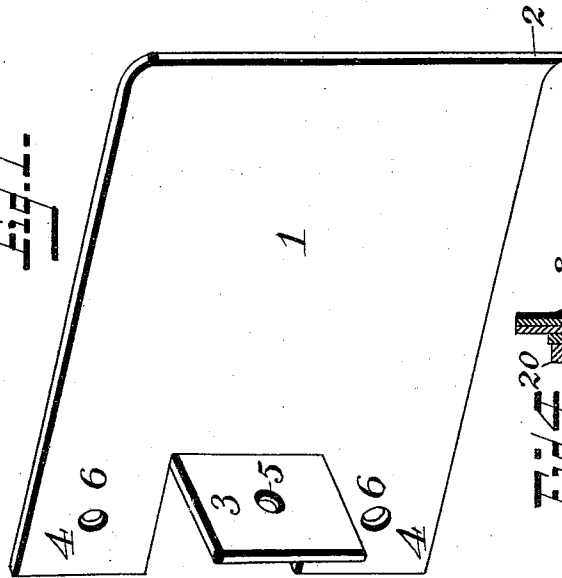


Fig. 1.



Witnesses
Albert Spiden
J. F. Culverwell

Inventor
Fred Miller,
By Attorneys
Pinckel & Pinckel.

UNITED STATES PATENT OFFICE.

FRED MILLER, OF CORNING, OHIO.

FLIGHT FOR ENDLESS CONVEYERS.

SPECIFICATION forming part of Letters Patent No. 501,289, dated July 11, 1893.

Application filed February 4, 1893. Serial No. 460,968. (No model.)

To all whom it may concern:

Be it known that I, FRED MILLER, a citizen of the United States, residing at Corning, in the county of Perry and State of Ohio, have invented certain new and useful Improvements in Flights or Buckets for Endless Conveyers; and I do hereby 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.

The object of my invention is to economically construct a flight or bucket that may be used advantageously with an endless band composed of the ordinary chain links.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of one part or wing of the flight. Fig. 2 is a front elevation of the flight complete. Fig. 3 is an edge view looking down at the top of Fig. 2; and Fig. 4 is a sectional view taken on the line $x-x$ of Fig. 2 or 3.

In Figs. 3 and 4 I have shown the flight applied to fragments of the chain.

As illustrated in the drawings, the flight or bucket is composed of two similarly constructed separable parts or wings 1 1 adapted to be secured together so as to extend on opposite sides of the chain. Each wing or part 1 consists of a plate of metal of substantially rectangular form having its outer edges slightly curved as shown at 2 so as the better to gather and retain the material as it is drawn along a channel or trough and on its inner edge a tongue 3 struck up out of the metal, standing at right angles to the plane of the plate. When the tongue 3 is struck up out of the plate, tongues 4 4 remain above and below the tongue 3. The tongues 3 and 4 4 are perforated as shown at 5 and 6 for the passage of fastening bolts.

To form the complete flight or bucket two of the plates 1 are put together so that the tongues 4 lap and the tongues 3 stand parallel to each other on the same side of the flight,

but the position of the bolt holes 6 in tongues 4 is such that when the bucket is put together there is a space between tongues 3 for the reception of link 7 of an endless chain. The lapping tongues 4 are secured together by means of bolts 8 and nuts 20, substantially as shown, while the tongues 3 are secured in position against the sides of link 7 by bolt 19 and nut 21. The rear link 10 serves as a stop for the bucket on link 7. Every bucket on the chain may be put together at regular intervals in the same way.

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

1. In an elevator bucket or flight, the plate 1 having at one edge tongues 4 4, a recess intermediate said tongues adapted to receive a chain link, and a transverse tongue 3 at the edge of the recess, substantially as described.

2. In an elevator bucket or flight, the plate 1 having at one edge tongues 4 4, a recess intermediate said tongues adapted to receive a chain link, a transverse tongue 3 at the edge of the recess, and the outer curved edge 2, substantially as described.

3. A bucket or flight for elevators comprising two plates 1 1 each having at their inner edge two overlapping tongues 4 4, a recess intermediate said tongues adapted to receive a chain link, and a tongue 3 transverse to the plane of the plate at the edge of the recess, substantially as described.

4. A bucket or flight for elevators comprising two plates 1 1 each having at their inner edge two overlapping tongues 4 4, a recess intermediate said tongues adapted to receive a chain link, the transverse tongue 3 at the edge of said recess, and the outer curved edge 2, substantially as described.

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

FRED MILLER.

Witnesses:

LEWIS M. ALDERMAN,
R. D. BOOK.