

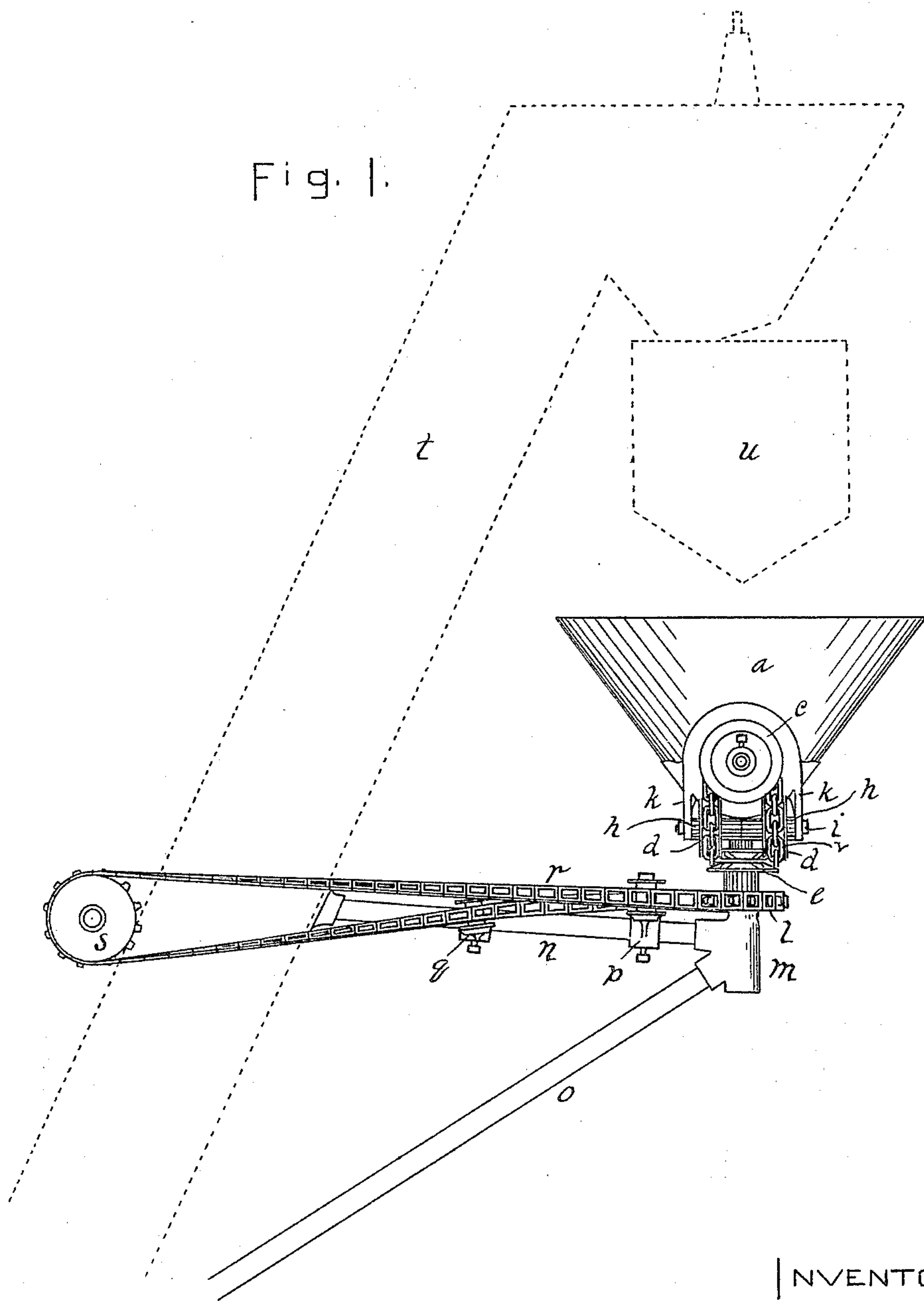
(No Model.)

2 Sheets—Sheet 1.

C. J. HARTLEY.  
CONVEYER.

No. 446,597.

Patented Feb. 17, 1891.



ATTEST

*W. W. Graham*  
*Helen Graham*

INVENTOR

*Charles J. Hartley*  
By *L. P. Graham*  
his attorney

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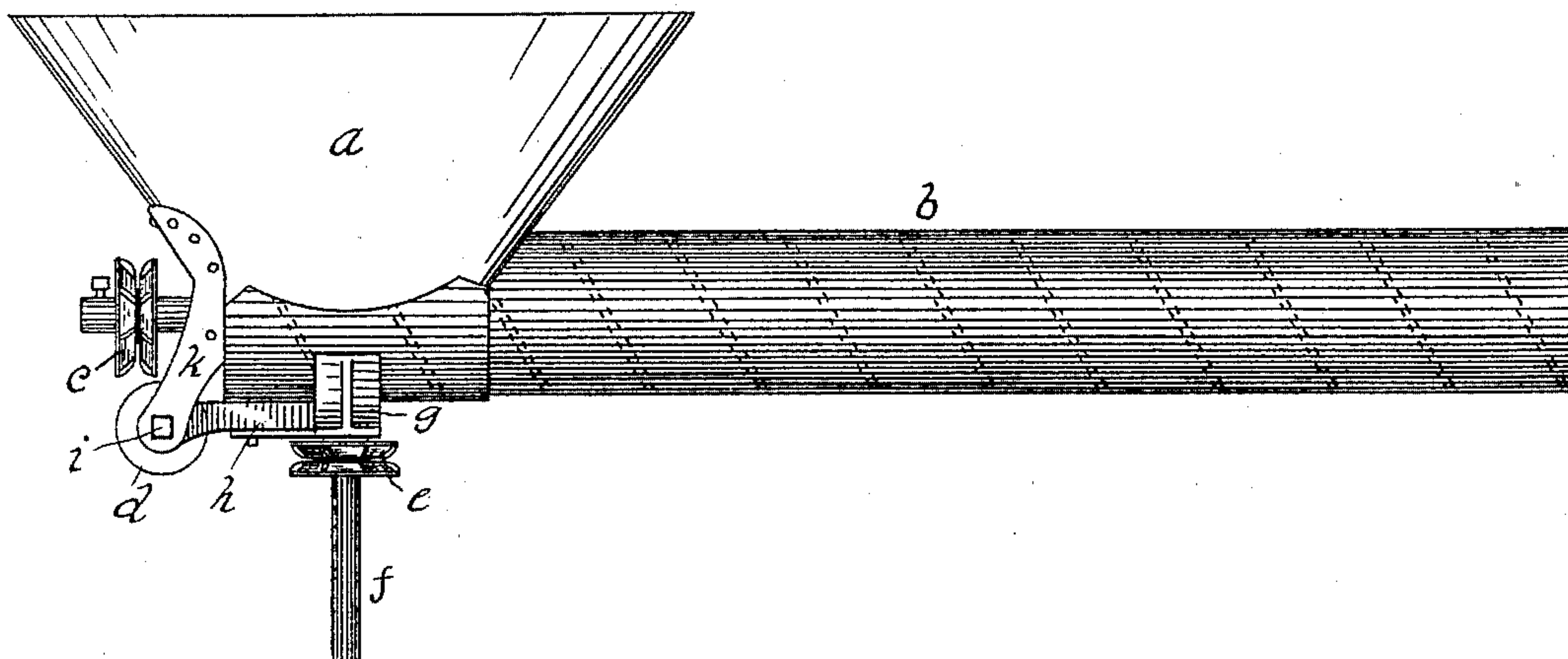
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Fig. 2.



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# UNITED STATES PATENT OFFICE.

CHARLES J. HARTLEY, OF DECATUR, ILLINOIS, ASSIGNOR OF TWO-THIRDS  
TO JOHN K. WARREN AND BRADFORD K. DURFEE, OF SAME PLACE.

## CONVEYER.

SPECIFICATION forming part of Letters Patent No. 446,597, dated February 17, 1891.

Application filed December 26, 1889. Serial No. 334,996. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES J. HARTLEY, of the city of Decatur, county of Macon, and State of Illinois, have invented certain new and useful Improvements in Conveyers, of which the following is a specification.

My invention is designed to coact with the elevator and weigher of a thrashing-machine; and it consists in the details of construction and combinations of parts hereinafter set forth and claimed, whereby pivotal adjustment in different directions may be easily had without complicating or interfering with the action of the motive mechanism.

In the drawings accompanying and forming a part of this specification, Figure 1 is an end view of my device, showing, generally, its relation to an elevator and weigher; and Fig. 2 is a side view of the conveyer detached from its support and minus its actuating-chain.

The hopper *a* opens into the conveyer *b*, which is provided with a rotating spiral, that advances the contents of the conveyer. Vertical bearing *m* is supported by bars or rods *n* and *o* and by additional braces, if desired. The pin *f* pivots in bearing *m*, and it carries the conveyer-rest *g* and the horizontal arms *h*. Arms *k* are secured to the hopper, and they pivot on rod or shaft *i*, which is supported by arms *h*. A sprocket-wheel *l* is mounted on pin *f* and connected with a chain-wheel *e*. Idlers *d* are mounted on shaft *i*, and wheel *c* is fixed on the shaft of the spiral of conveyer *b*. Chain *v* extends around wheels *c*, *d*, and *e*, and conveys motion from sprocket-wheel *l* to the spiral of the conveyer. A wheel *s* is actuated by the thrasher, and its motion is imparted to wheel *l* by link belt *r*. The link belt makes a quarter-turn, and it is supported intermediately by idlers *p* and *q*, the latter of which is adapted to act as a tightener

for the belt, and both of which are adjustable on bar *n*.

The elevator is indicated by dotted lines and designated by reference-letter *t*. The weigher is designated by letter *u*.

In operation the conveyer is sustained by shaft *i* and rest *g*, and it may be swung horizontally into any desired position without interfering with the action of chain *v*. Should any obstruction be met in making the horizontal adjustment, the swinging end of the conveyer may be raised over the same and again lowered into contact with the rest.

The chain and sprocket wheels impart power unyieldingly; but where this peculiarity is not desired other forms of belt will provide the essential thing—a flexible power-transmitter—quite as well.

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

1. In conveyers, the combination of the conveyer-pipe having a revoluble spiral, the driven wheel on the shaft of the spiral, the pivot-pin supporting the conveyer-pipes, the drive-wheel on the pin, the idlers, and the link belt connecting the wheel on the pin with the wheel on the conveyer-shaft, as set forth.

2. In conveyers, the combination of pivot-pin *f*, having rest *g* and arms *h*, conveyer *b*, having the revoluble spiral and connecting pivotally with arms *h*, wheel *c* on the conveyer-shaft, idlers *d*, wheel *e* on the pin, and link belt *r*, connecting the wheel of the pin with the wheel of the conveyer-shaft, as set forth.

In testimony whereof I sign my name in the presence of two subscribing witnesses.

CHARLES J. HARTLEY.

Attest:

JOHN B. PRESTLEY,  
HENRY A. WOOD.