

(No Model.)

C. J. HARTLEY.
CONVEYER FOR THRASHING MACHINES.

No. 446,598.

Patented Feb. 17, 1891.

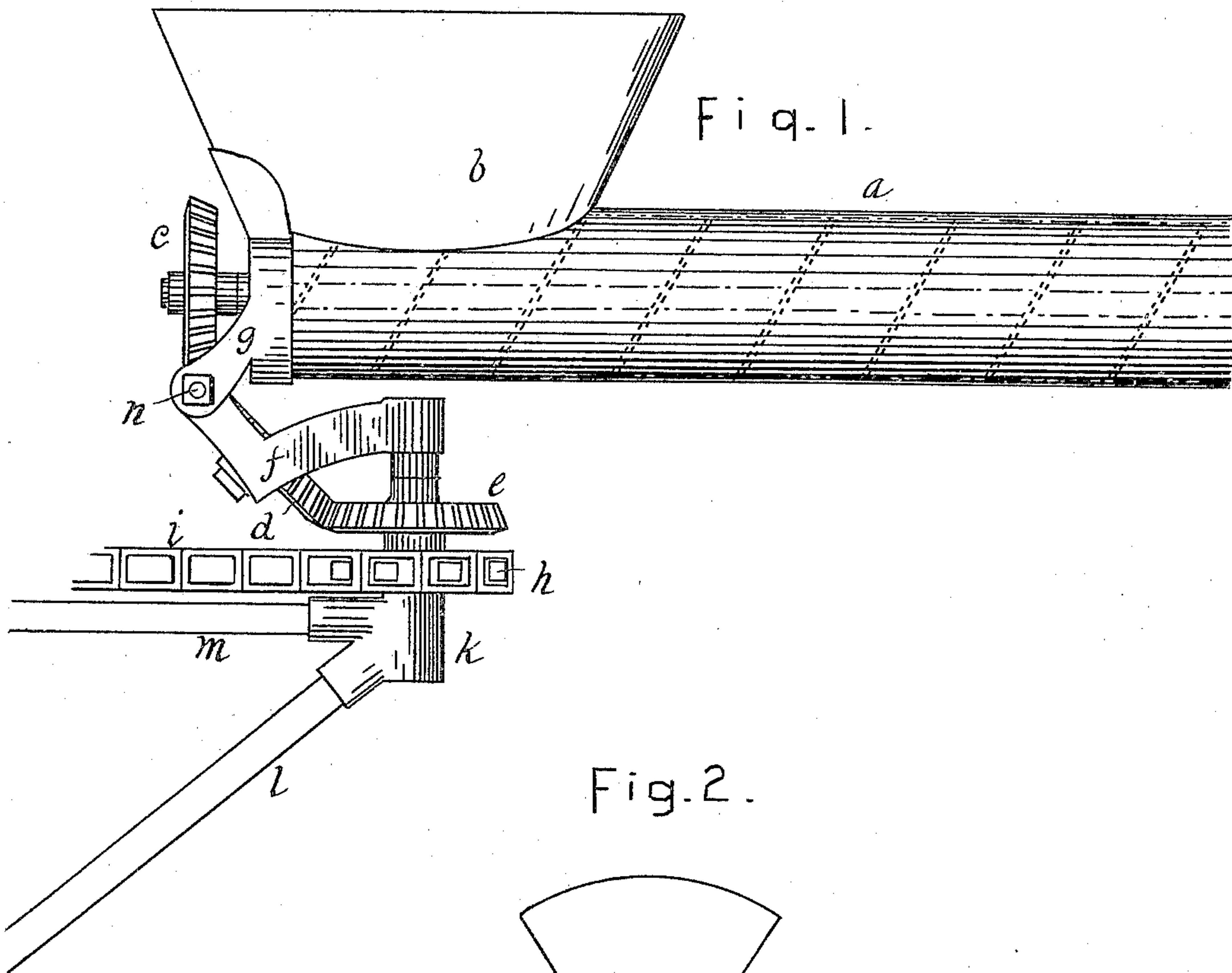
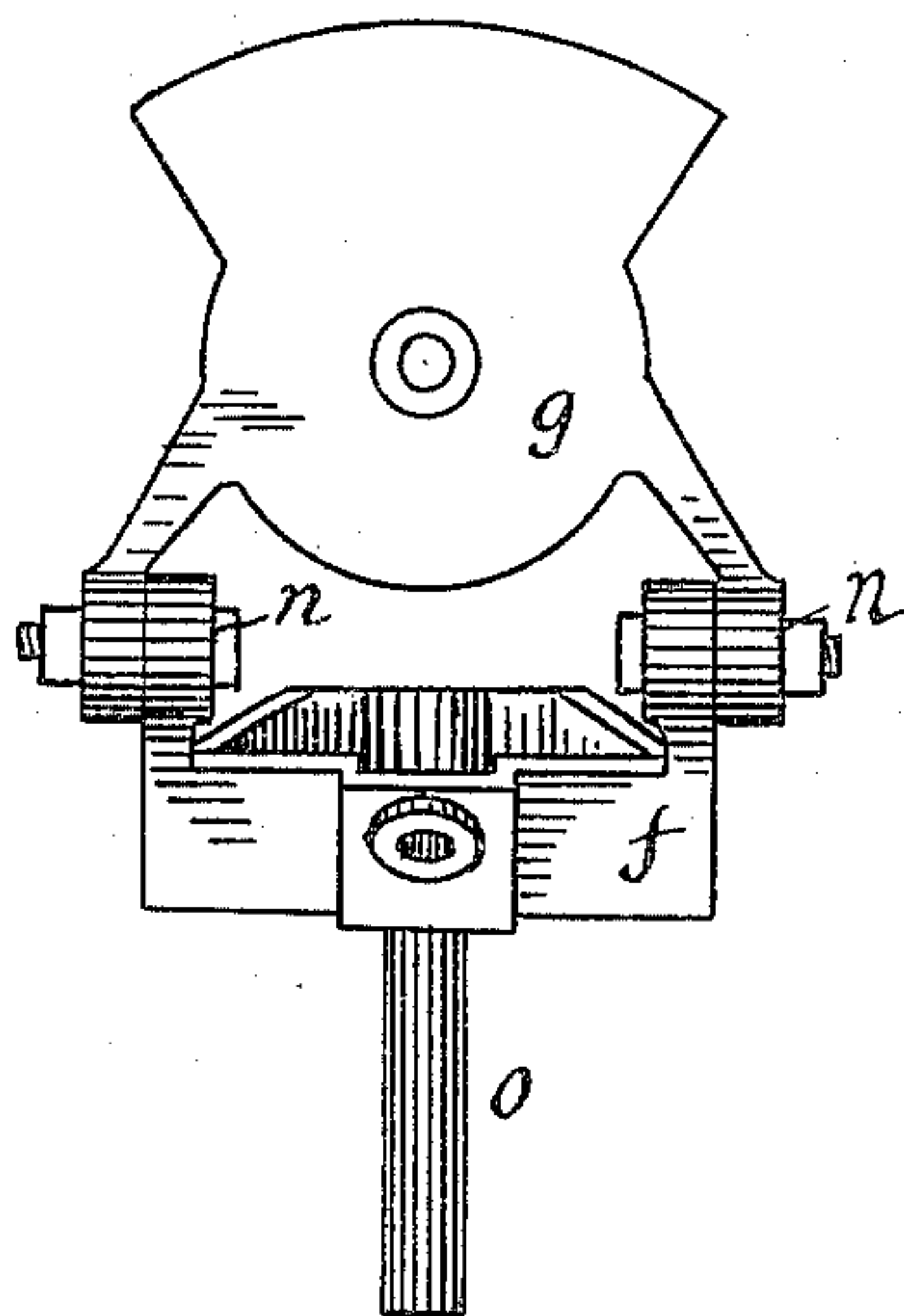


Fig. 2.



ATTEST
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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. DUFFEE, OF SAME PLACE.

CONVEYER FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 446,598, dated February 17, 1891.

Application filed December 26, 1889. Renewed December 17, 1890. Serial No. 374,967. (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 for Thrashing-Machines, of which the following is a specification.

My invention relates to conveyers used to receive grain from the weighers of thrashing-machines and deliver it to various points with relation to the machine; and it consists, primarily, in a vertical pivot on which the conveyer may swing horizontally, a horizontal pivot on which the conveyer may swing vertically, and gearing adapted to impart motion from a wheel on the vertical pivot to the worm or other conveying mechanism of the conveyer.

My invention also consists, secondarily, in the details of construction and combinations of parts hereinafter set forth and claimed.

In the drawings accompanying and forming a part of this specification, Figure 1 is a side view of a device embodying my invention, and Fig. 2 is an end view of the pivot-frames employed in this particular case to give the conveyer universal motion.

The conveyer *a* has a rotating spiral, and it is provided with a hopper *b*, that receives grain from the weigher of a thrashing-machine. The socket *k* is supported from the thrasher by braces *l* and *m*, and it provides a pivotal bearing for pin *o*. (Seen only in Fig. 2.) The frame *f* is integral with pin *o*, and it is pivotally connected at *n* with frame *g*, which carries the conveyer and provides a bearing for the conveyer-shaft. Sprocket-wheel *h* is mounted loosely on pin *o*, and it is driven by chain *i* in the customary manner. The bevel-wheel *e* is integral with the sprock-

et-wheel, and it meshes with the oblique wheel *d*, which in turn meshes with the bevel-wheel *c* of the conveyer-shaft. The pivots *n* are in line with the conjoining pitch-lines of wheels *c* and *d*, so that the conveyer may be swung on such pivots without affecting the mesh of the wheels, and, as will be readily seen, the conveyer may be swung to any desired position on pin *o* without interfering with the operation of the gearing.

By means of this invention the conveyer may be swung to any desired position in a horizontal plane and may be elevated to a considerable degree to avoid obstructions or for other purposes, and in making such adjustment the machine may continue in operation.

The conveyer may be detached from the machine by the simple expedient of raising the pin *o* out of the socket *k* and out of wheels *e* and *h*.

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

1. A conveyer for thrashing-machines, comprising a conveyer-worm in a cylinder having a vertical pivot and a horizontal pivot, and a set of obliquely-arranged gear-wheels extending from the vertical pivot to the worm-shaft, as set forth.

2. In combination, pivot *o*, carrying frame *f*, frame *g*, pivoted at *n* to frame *f* and carrying spiral conveyer *a* and gear-wheels *e d c* on pin *o*, frame *f*, and the worm-shaft, respectively, the pivot *n* being in line with the conjunction of wheels *c* and *d*, as set forth.

CHARLES J. HARTLEY.

Attest:

JOHN B. PRESTLEY,
HENRY A. WOOD.