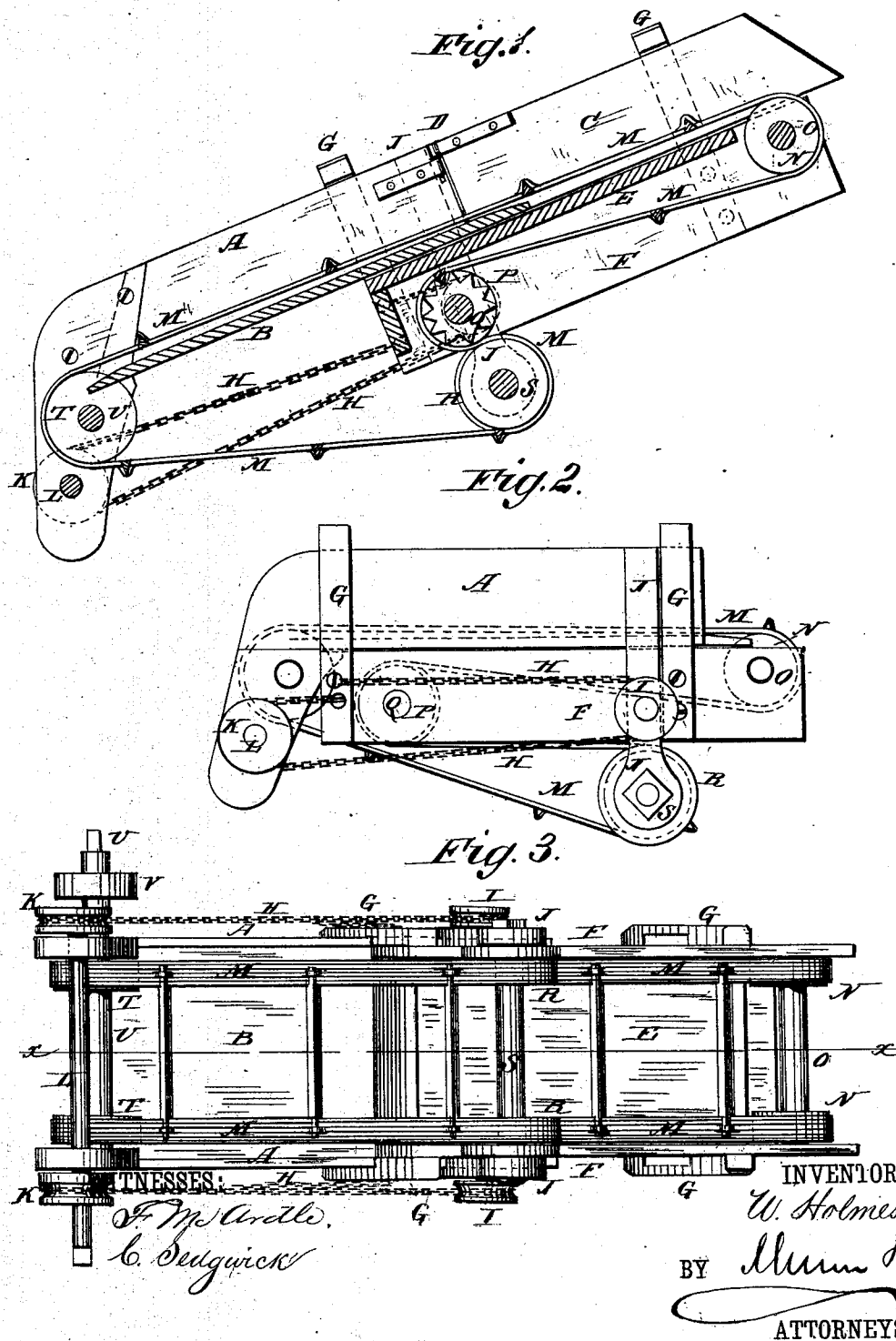


(No Model.)

W. HOLMES.
Extension Straw Stacker.

No. 236,815.

Patented Jan. 18, 1881.



UNITED STATES PATENT OFFICE.

WILLIAM HOLMES, OF ASHLAND, OHIO.

EXTENSION STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 236,815, dated January 18, 1881.

Application filed April 7, 1880. (No model).

To all whom it may concern:

Be it known that I, WILLIAM HOLMES, of Ashland, in the county of Ashland and State of Ohio, have invented a new and useful Improvement in Extension Straw-Stackers, of which the following is a specification.

Figure 1 is a sectional side elevation of the improvement extended. Fig. 2 is a side elevation of the same contracted. Fig. 3 is a bottom view of the same extended.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish straw-stackers for thrashers, so constructed that they may be extended and contracted without affecting the tension of the endless-belt carrier or the tension of the adjusting-chains.

The invention consists in constructing an extension straw-stacker of a lower stationary part having hangers, detachable side boards, a movable upper part having standards, the chains, chain-wheels, and shaft, and the endless-belt carrier and its pulleys and shafts, as will be hereinafter fully described.

A represents the side boards, and B the bottom board, of the lower or stationary part of the stacker. C are the side boards of the upper part of the stacker, the lower ends of which side boards are connected with the upper ends of the side boards, A, by detachable hinges D. The side boards, C, rest upon the bottom board, E, which is attached to the frame F of the upper part of the stacker.

To the sides of the frame F are attached standards G, which pass up at the outer sides of the side boards, A C, and have shoulders upon their upper ends to overlap the upper edges of the said side boards, A C, and serve as guides in extending and contracting the stacker. The stacker is extended and contracted by the chains H, the ends of which are attached to the lower standards, G. The chains H pass around chain-wheels I, pivoted to hangers J, attached to the sides of the lower part of the stacker, near their upper ends. The chains H also pass around chain-wheels K, attached to a shaft, L, which works in bearings at the lower end of the stationary part of the stacker. One end of the shaft L projects, and is squared off to receive the

crank, by means of which it is turned to adjust the upper part of the stacker.

M is the endless-belt carrier, by which the straw is carried up to and dropped upon the stack. The endless belt of the carrier M passes around pulley N, attached to a shaft, O, which works in bearings attached to the upper end of the frame F; around pulleys P, attached to a shaft, Q, which works in bearings in the lower parts of the frame F; around pulleys R, attached to the shaft S, which works in bearings in the lower ends of the hangers J, and around pulleys T, attached to the shaft U, which works in bearings in the lower part of the side boards, A. The inner parts of the pulleys P are notched to receive the ends of the cross-bars of the endless-belt carrier M. With this construction the tension of the endless-belt carrier M will be unaffected by the extension and contraction of the stacker.

One end of the shaft U projects, and to it is attached a pulley, V, to receive the belt by which the stacker is driven. The lower end of the stacker is connected with the thrasher in the ordinary manner, depending upon the construction of the said thrasher.

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

1. An extension straw-stacker constructed substantially as herein shown and described, consisting of the stationary lower part, A B, the detachable side boards, C, the movable upper part, E F, the standards G, the hangers J, the chains H, chain-wheels I K, and shaft L, and the endless-belt carrier M, and its pulleys N P R T and shafts O Q S U, as set forth.

2. In an extension straw-stacker, the combination, with the stationary lower part, A B, and the movable upper part, E F, of the endless-belt carrier M, the pulleys N P R T, and the shafts O Q S U, substantially as herein shown and described, whereby the tension of the endless-belt carrier will be unaffected by the extension and contraction of the stacker, as set forth.

WILLIAM HOLMES.

Witnesses:

JOHN VAN NEST,
DANIEL FASIG.