2 Sheets—Sheet 1.

F. MYERS.

Nail-Feeding Machine.

No. 215,153. **Patented May 6, 1879.**

Fig 1

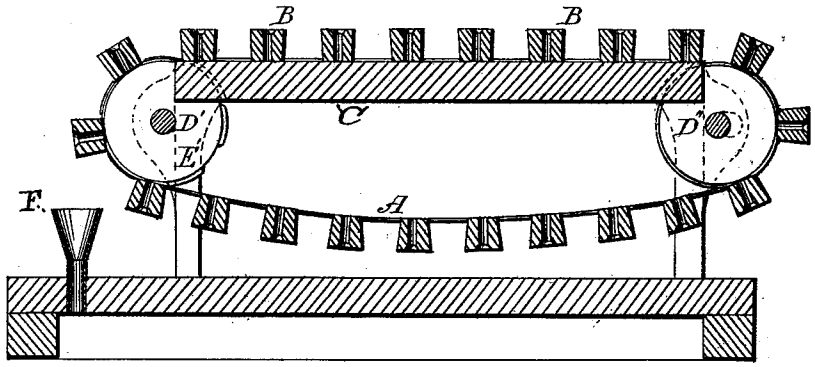
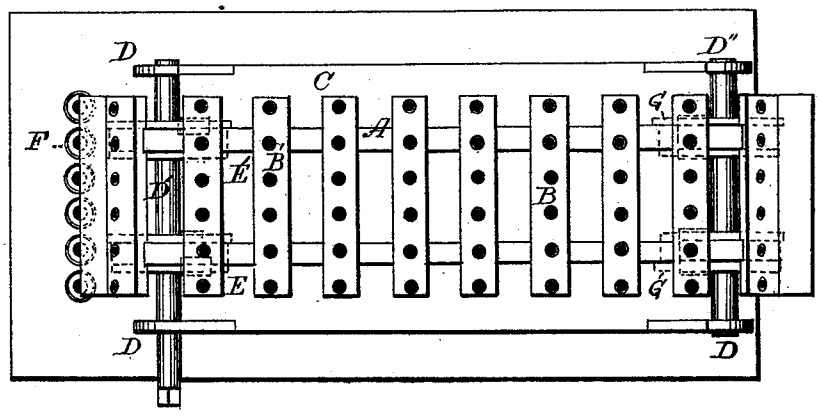


Fig 2



Attest.

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2 Sheets—Sheet 2.

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Fig. 3.

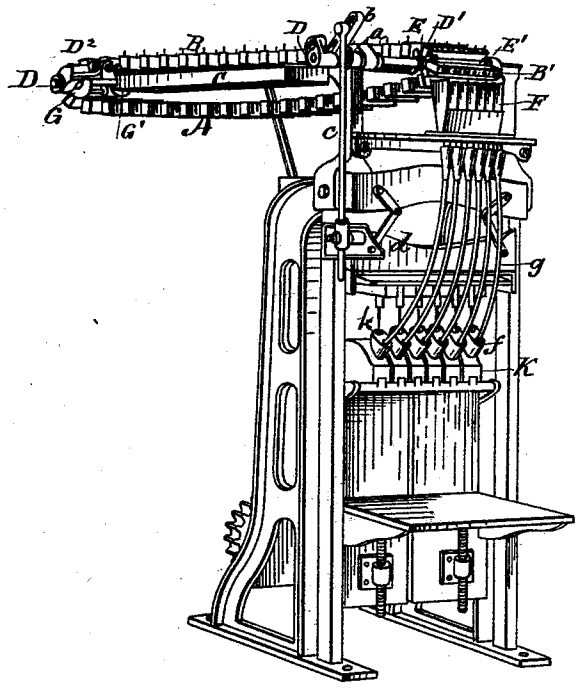
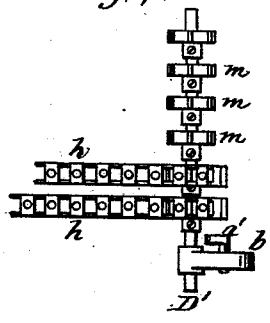


Fig. 4.



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UNITED STATES PATENT OFFICE.

FREDERICK MYERS, OF NEW YORK, N. Y.

IMPROVEMENT IN NAIL-FEEDING MACHINES.

Specification forming part of Letters Patent No. **215,153**, dated May 6, 1879; application filed August 2, 1877.

To all whom it may concern:

Be it known that I, FREDERICK MYERS, of New York, in the county of New York, in the State of New York, have invented a new, useful, and important Nail-Feeding Machine, as described in this specification.

My invention consists of a nail-feeder having, essentially, an endless or belt receiver and conveyer, to be supported and operated by suitable mechanism, and adapted to receive nails independently, convey them uniformly, and deliver them separately to the nail driver or drivers, or support or supports, or conduit or conduits of a nailing-machine.

It consists, further, in such a nail-feeder made in sections, adapted for the operation of one or more of the sections independently of the other sections.

It consists, further, in such a nail-feeder combined with the nail-driving mechanism of a box-nailing machine.

Figure 1 is a longitudinal section of a nail receiver and conveyer embodying my invention detached from driving mechanism and from a nailing-machine. Fig. 2 is a top view of the same. Fig. 3 is a perspective view of the nail-feeder combined with the driving mechanism of a box-nailing machine. Fig. 4 is a partial view of the sectional nail-feeder.

A is a receiver and conveyer, having transverse bars B, provided with holes or sockets B', of sufficient size to receive a nail easily head foremost. The number and arrangement of the holes or sockets may be varied.

C is a platform to support the receiver and conveyer, and having bearings D, which support the shafts D' D''. To the shaft D' are securely fastened two toothed traction-pulleys, E E', the teeth being so arranged as to receive the transverse bars, to prevent them from slipping when they are drawn forward by the traction-pulleys. The shaft D'' has fixed to it two plain supporting-pulleys, G G.

The receiver and conveyer is moved intermittingly by suitable mechanism—as a ratchet, *a*, attached to the end of shaft D', and operated by a pawl, *a'*, attached to an arm, *b*, loosely fitted to the shaft, and which is moved intermittingly by means of a connecting-rod, *c*, attached to the reciprocating head *d* of a nailing-machine.

The teeth of the ratchet should be so adjusted that the shaft is only moved when the head of the nailing-machine moves upward, and then only sufficiently to move the receiver and conveyer one bar, that being the time when the nail-supports *f* are empty and the nail-drivers *k* withdrawn from them.

The platform supporting the receiver and conveyer is suitably adjusted with relation to a nailing-machine.

The machines being put in motion, and nails being placed singly, head foremost, in the holes or sockets in the receiver and conveyer, the bars will overturn at regular intervals and deliver the nails point foremost to be driven.

Nails may be supplied by an attendant as fast as they are driven, so that the feeding will be continuous while the machines are in operation.

The amount of nails to be used may be varied by omitting to place nails in certain holes or sockets.

The receiver and conveyer may be made in sections *h*, each section operated by independent pulleys *m*, suitably connected to the shafts, so that one or more sections can be employed as the nails are required independently of the other sections.

The details of construction and operation may be varied without departing from my invention.

The nailing-machine shown I make no claim to. Further, I make no claim in this case to the particular connecting operating devices shown and described between the nail-feeder and the nailing-machine; but I may claim them in a subsequent case.

I claim—

1. An endless nail receiver and conveyer having transverse bars provided with holes or sockets for the nails, in combination with a toothed traction pulley or pulleys and independent belt-supporting mechanism, substantially as described.

2. An endless nail receiver and conveyer having transverse bars provided with holes or sockets for the nails, in combination with a toothed traction pulley or pulleys, a supporting pulley or pulleys, and independent belt-supporting mechanism, substantially as described.

3. An endless nail-feeder consisting of two or more sections, adapted by mechanism for the operation of one or more of the sections independently of the other sections, each section adapted to receive nails separately, convey them uniformly, and deliver them separately point foremost to the nail driver or drivers of a nailing-machine, substantially as described.

4. An endless nail-feeder having transverse bars provided with holes or sockets for the nails, in combination with the nail-driving mechanism of a box-nailing machine to receive the nails separately, convey them uniformly, and deliver them separately to the nail driver or drivers, substantially as described.

FREDERICK MYERS.

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OLIVER LIGHTOWLER.