

A. & W. C. Wheeler,

Horse Power.

N^o 2,157.

Patented July 8, 1841.

Fig: 3.

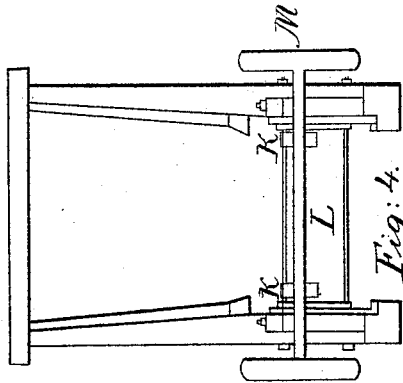


Fig: 4.

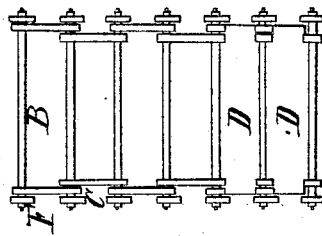


Fig: 5.

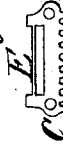


Fig: 1.

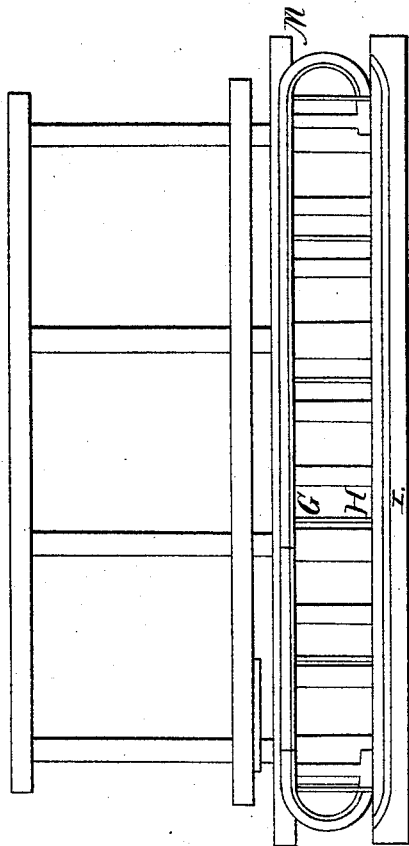
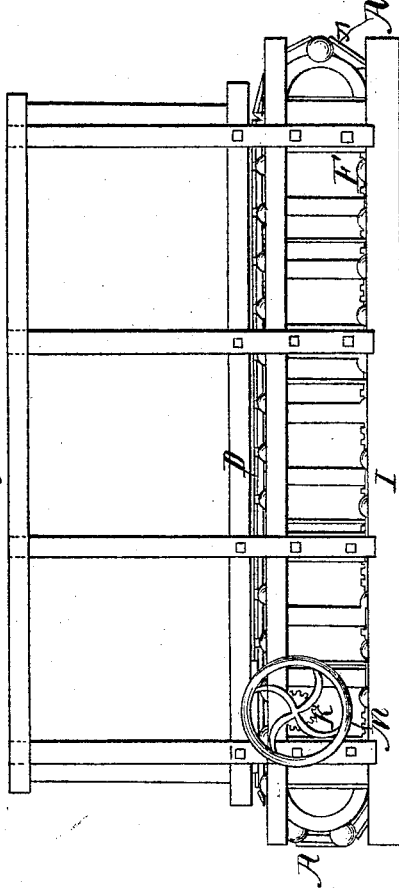


Fig: 2.



UNITED STATES PATENT OFFICE.

W. C. WHEELER AND A. WHEELER, OF CHATHAM, NEW YORK.

ENDLESS-CHAIN HORSE-POWER FOR DRIVING MACHINERY.

Specification of Letters Patent No. 2,157, dated July 8, 1841.

To all whom it may concern:

Be it known that we, WILLIAM C. WHEELER and ALONZO WHEELER, of the town of Chatham, county of Columbia, and State of New York, have invented a new and useful Improvement in a Machine called a "Horse-Power;" and we do hereby declare the following to be a full and exact description of the same.

The horse power is of that description called a "chain horse-power" and the nature of our invention consists in providing the links of which the chain is formed with cogs to work into small pinions, the advantages of which principle over those of other horsepowers, are, that a considerable expense of gearing is avoided, which creates less friction and requires less power to produce the desired motion.

To enable others skilled in the art to make and use our invention, we will proceed to describe the construction and operation of the horse power of which it forms a part.

It consists of an endless chain A, Figures 2 and 4, formed by horizontal axles B, Fig. 4, connected by links C, Figs. 4 and 5, having a row of cogs on one edge and a projection or catch on the other edge between which catches plank D, Figs. 2 and 4, are placed, being fitted and secured to the links by rods E, Fig. 5, passing through the catches on the links and through the ends of the planks. These planks form a bridge or floor upon which the horse walks. The axles B extend through the links C and receive upon their ends wheels, F, Figs. 2 and 4, which revolve on rails, G and H, Fig. 1,

provided with a guard to prevent the wheels from running off the axles. These rails are secured to the inner side of the frame I, Figs. 1 and 2; the upper rail, G, terminating in a semi-circle at each end, around which the chain revolves until it rests upon the lower rail H.

The machine is put in motion by placing the horse (or horses) upon the floor above described, and gearing them to the sides of the frame, I. The two rows of cogs formed by the links C on each side of the chain work into 2 pinions K, Figs. 2 and 3, fixed on a horizontal axle L, Fig. 3, turning in boxes fastened to the two side girts of the frame, I; the said horizontal axle having a pulley M, Figs. 2 and 3 on either end from which a belt or band extends to the machine which it is to be applied which may be any to which a horsepower is adapted.

We are aware that endless chains for horsepowers have been invented with plates jointed together and having cogs projecting from their under side to act on a pinion and therefore we do not claim this as our invention; but

What we do claim and desire to secure by Letters Patent is

Providing the lower edge of the links of the chain to which the endless flooring is attached with cogs to work into pinions as above described.

WILLIAM C. WHEELER.
ALONZO WHEELER.

Witnesses:

WM. B. MELICK,
STEPHEN T. WHEELER.