W. MERSON.

Improvement in Elevator Belt-Tighteners.

No. 129,745. Patented July 23, 1872.

Fig. 1

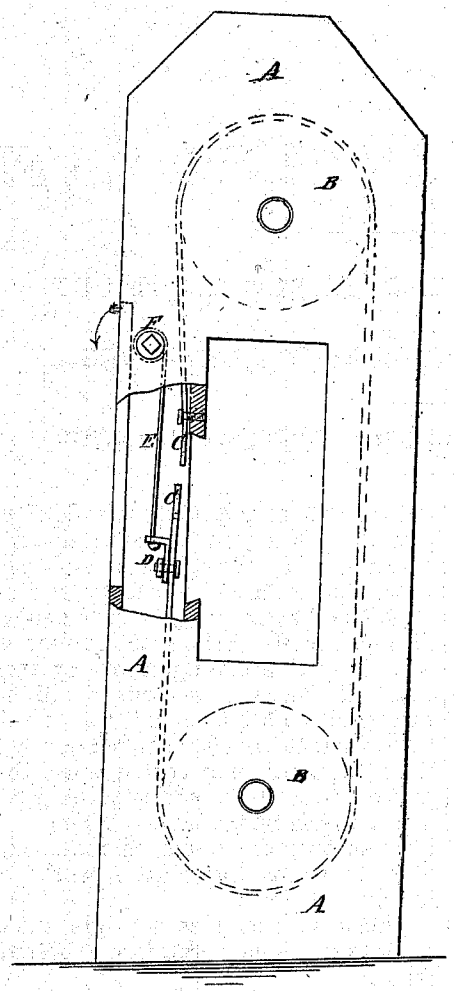
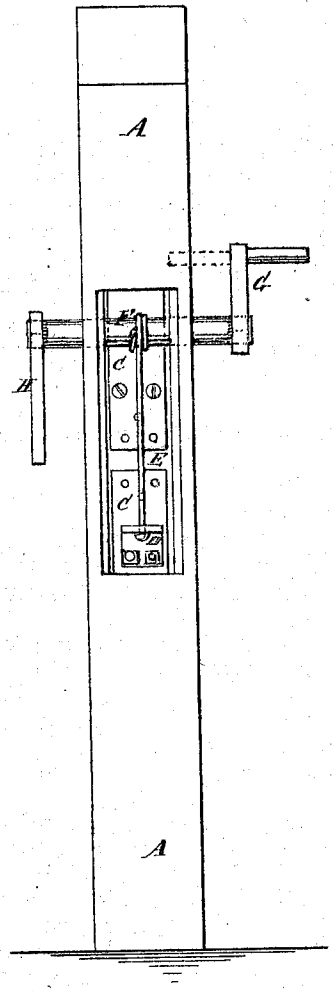


Fig. 2



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UNITED STATES PATENT OFFICE.

WILLIAM MERSON, OF DANBURY, CONNECTICUT.

IMPROVEMENT IN ELEVATOR-BELT TIGHTENERS.

Specification forming part of Letters Patent No. **129,745**, dated July 23, 1872.

Specification describing a new and useful Improvement in Elevator-Belt Tightener, invented by WILLIAM MERSON, of Danbury, in the county of Fairfield and State of Connecticut.

In the accompanying drawing, Figure 1 is a side view of an elevator to which my improved device has been applied, part being broken away to show the construction. Fig. 2 is a front view of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved device for tightening an elevator-belt and holding it until laced, and which shall be simple in construction and convenient and effective in operation, enabling the ends of an elevator-belt to be drawn together and laced by a single person; and it consists in the construction and combination of the various parts of the device, as hereinafter more fully described.

A represents the elevator-case; B, the elevator drums or pulleys; and C, the elevator-belt, about the construction of which parts there is nothing new. To the belt C, near one end, is bolted a small plate or lug, D, to which is attached one end of a short rope, cord, or strap, E, the other end of which is attached to a short shaft, F, passed through holes in the sides of the case A, and the ends of which project and are squared off to receive a crank, G, or wrench H. The other end of the belt C is secured to the case A by screws, as shown in the Figs. 1 and 2; or it may be provided with a lug, D, and cord E, in the same manner as the first end. By this arrangement, by turning the crank G the cord or cords E will be wound upon the shaft F to hold it from turning back. The crank G is then removed and reversed so that its handle may rest against the case A and hold the shaft F from turning back while the lacing is being done. When the lace has been secured the device is detached, and the holes in which the shaft F works closed by caps.

This device enables a single one to do the work which has heretofore required two or three.

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

The plate D, strap E, and windlass F, applied to one end of a belt, in combination with a bolt fastening the belt at the other end, as and for the purpose described.

WM. MERSON.

Witnesses:

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