3 Sheets—Sheet 1.

G. E. TAFT.

BELT-SHIPPING MECHANISM.

No. 184,999. Patented Dec. 5, 1876.

Fig. 2.

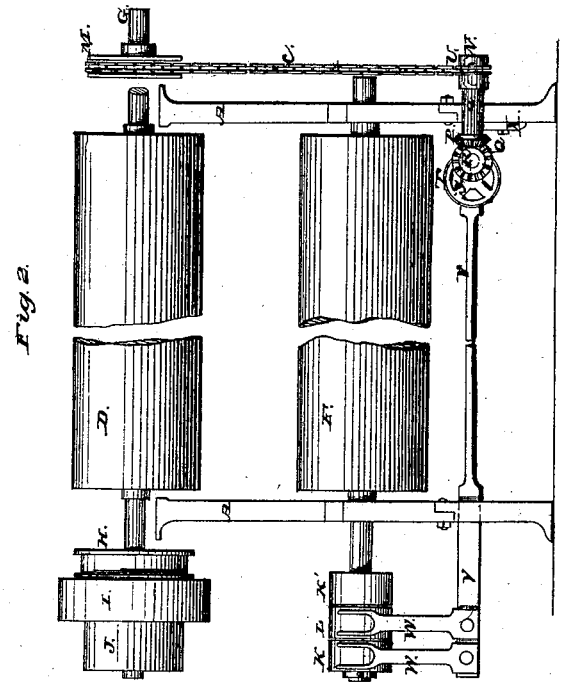
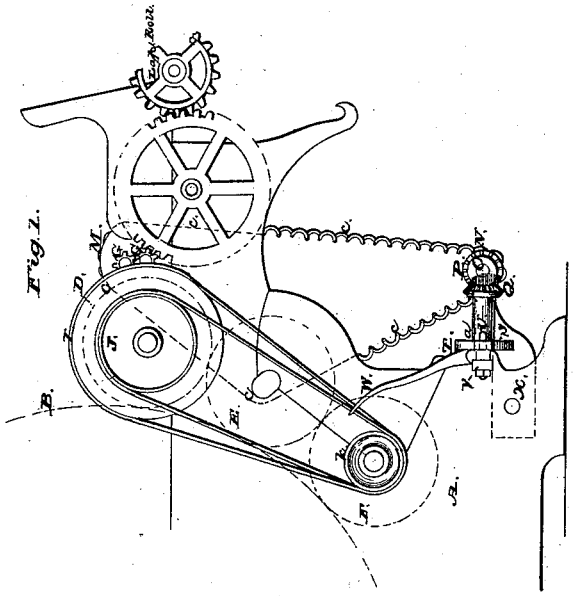


Fig. 1.



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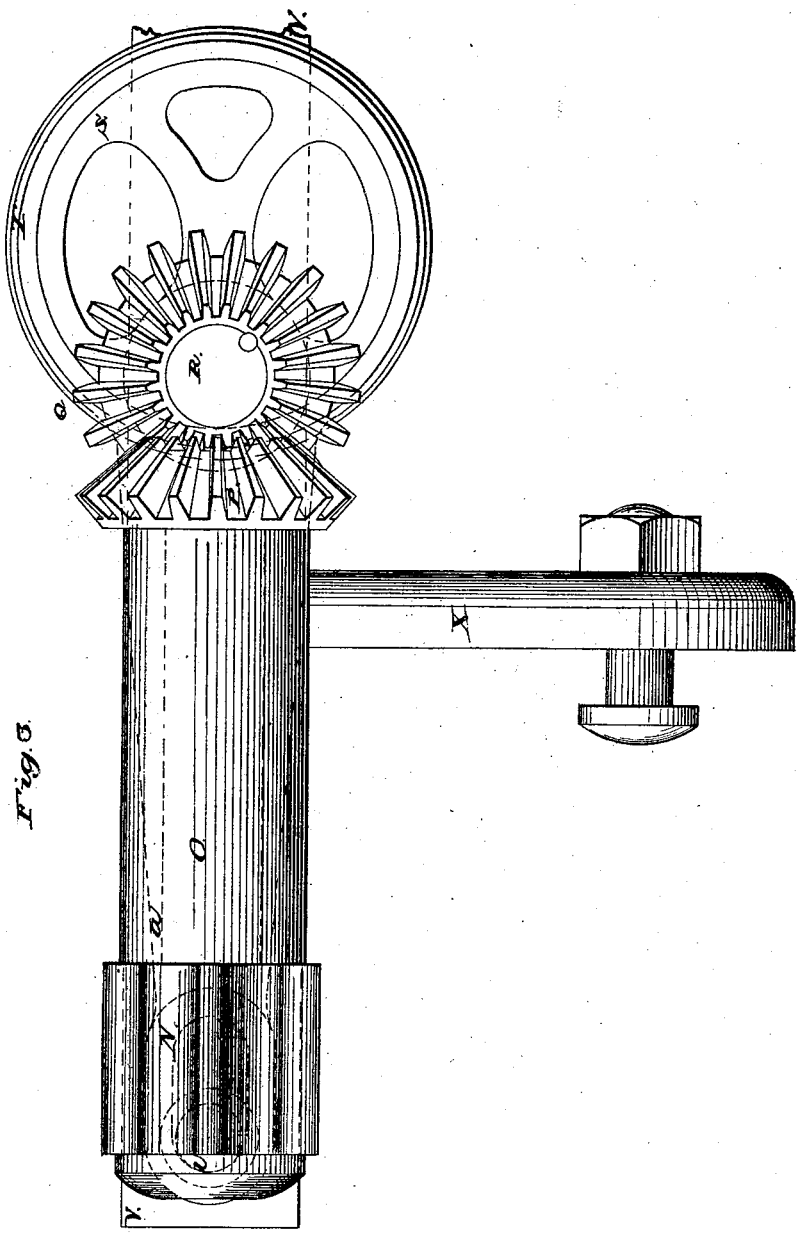

Fig. 5.

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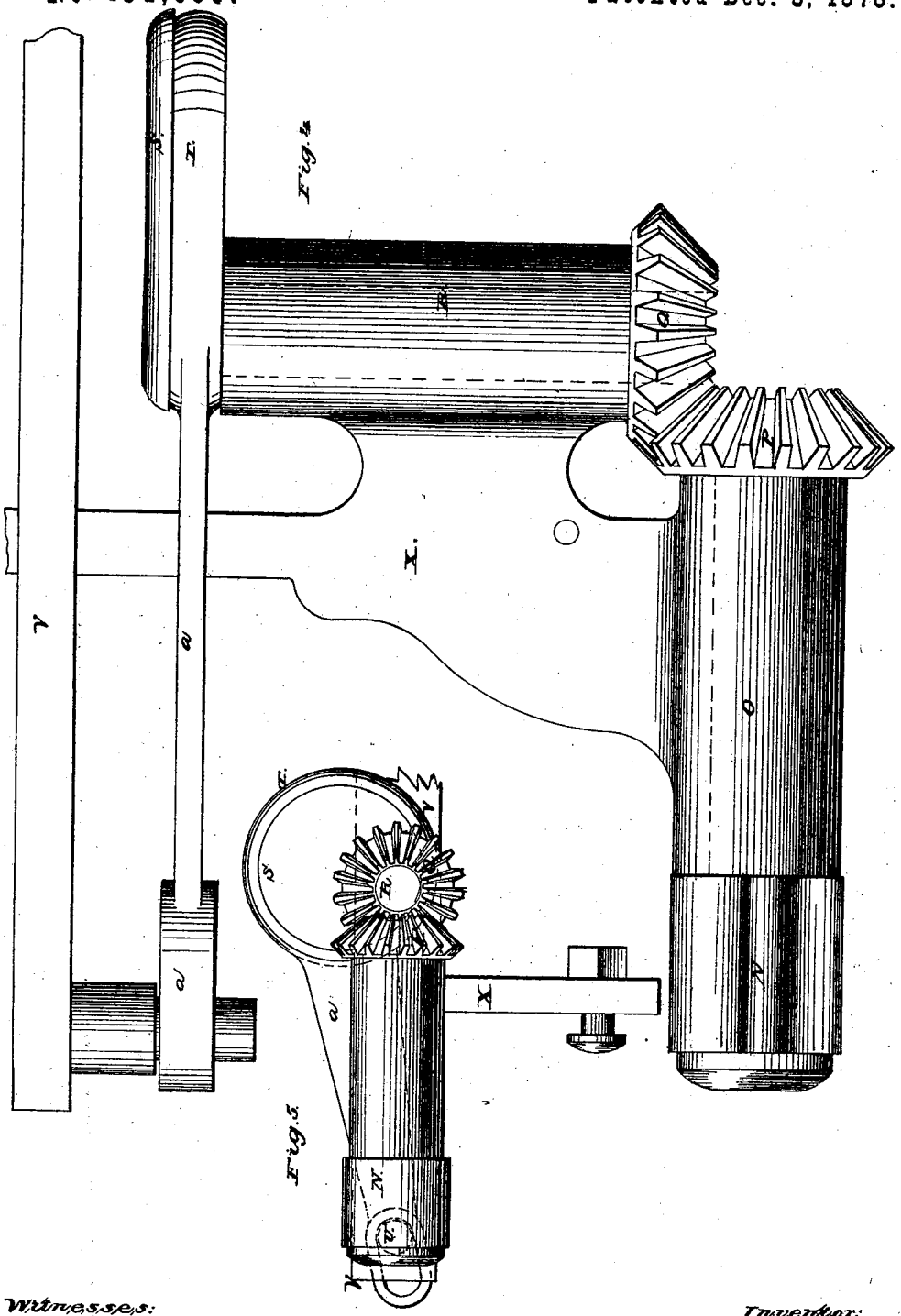

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UNITED STATES PATENT OFFICE.

GUSTAVUS E. TAFT, OF WHITINSVILLE, ASSIGNOR TO THE WHITIN MACHINE WORKS, OF NORTHBRIDGE, WORCESTER, MASSACHUSETTS.

IMPROVEMENT IN BELT-SHIPPING MECHANISMS.

Specification forming part of Letters Patent No. **184,999**, dated December 5, 1876; application filed October 30, 1876.

To all whom it may concern:

Be it known that I, GUSTAVUS E. TAFT, of Whitinsville, in the town of Northbridge, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Mechanism for Shipping-Belts for Operating Cylinder-Strippers of Cotton-Carding Machines, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings, making part of this specification.

The object of my invention is to produce an arrangement for operating the belts for driving the card-roller which strips the main cylinder of cotton-cards, in a more neat and effective manner than has been used.

Of the accompanying drawings, Figure 4 is a plan of my belt-shipper. Fig. 3 is an elevation of side A′ of the same. Fig. 5 is an elevation showing the eccentric and eccentric-strap in a different position from Figs. 4 and 3. Fig. 1 is a sectional elevation of the feed end of a cotton-card, showing a part of main cylinder, a leader-in, worker, cylinder-stripper, feed-rolls, lap-roll, and my belt-shipper and connections, applied to a card of an opposite hand to such cards as the shipper shown by Figs. 3, 4, and 5 is used on. Fig. 2 is a sectional end elevation of the feed end of a cotton-card, showing the two card sides, the leader-in, and the cylinder-stripper, and the belt-shipping mechanism and connections.

I will now describe its construction and operation.

A A are the card sides; B, the main cylinder; D, the leader-in; E, a worker; F, the cylinder-stripper; G and G′, the feed-rolls; H is a flange-pulley on the leader-in, which is driven by a pulley on the main cylinder-shaft; I, a large pulley on the leader-in, and J a smaller pulley on the same. K K′ are fast pulleys on the cylinder-stripper F, and L a loose pulley on the same. M is a chain-wheel, fast to the end of lower feed-roll G. N is a small chain-wheel on the short shaft O. C is a chain which drives the short shaft O and the worker E. On the other end of shaft O is a miter-gear, P, which drives another miter-gear, Q, on another short shaft, R. On the other end of shaft R is an eccentric, S. Over the eccentric, and operated by it, is an eccentric-strap, T, having a slotted arm, *a*. The slot in the arm *a* operates over the pin U, which is secured to the shipper-bar V. W W are the belt-shippers, which are shown in a position to guide the belt so as to drive the cylinder-stripper F at the slow speed, the belt from large pulley I running on the loose pulley L. X is a stand.

It is desirable to have the cylinder-stripper keep running a short time at its slow speed, and also at its fast speed; and this is effected in the following manner: When the eccentric is going two-tenths of a revolution, the slot in arm *a* is moving over the pin U without sliding the bar V. The next three-tenths of a revolution it is moving the shipper-bar V, so as to move the slow belt onto the loose pulley, and the quick-speed belt on the tight pulley K′. The next two-tenths of a revolution the bar V is stationary, and the other three-tenths of a revolution it is being shipped again to the slow speed.

Having described its construction and operation, what I claim as my invention is—

The device comprising the stand X, chain-wheel N, miter-gears P and Q, eccentric S, eccentric-strap T, and pin U, combined and arranged for operating belt-shippers of card-cylinder strippers, essentially as herein described.

GUSTAVUS E. TAFT.

Witnesses:
DAVID B. CHASE,
HENRY B. OSGOOD.