(No Model.)

R. M. TRUE.

BOLTING CHEST.

No. 326,175. Patented Sept. 15, 1885.

Fig. 1.

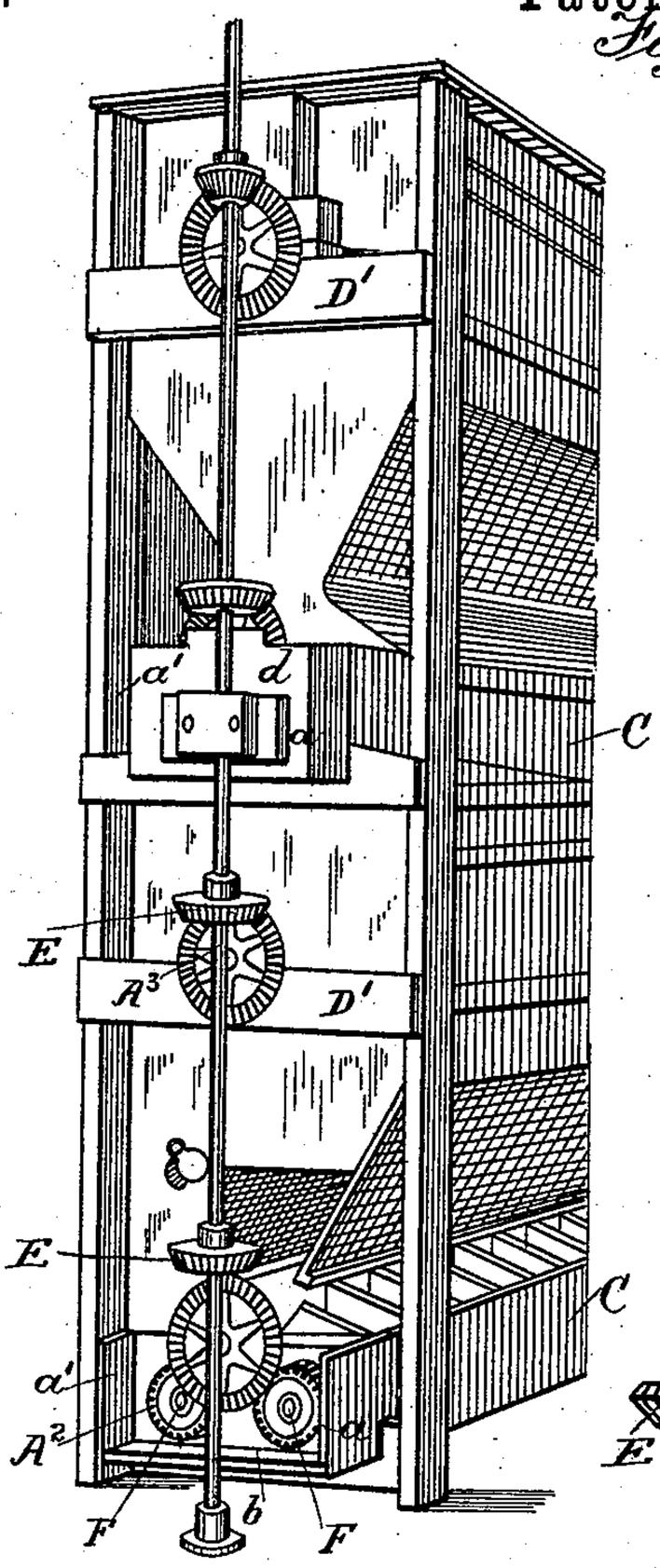


Fig. 2.

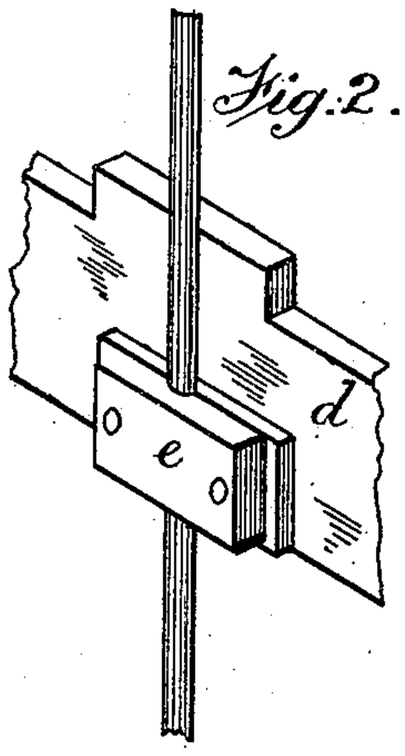


Fig. 4.

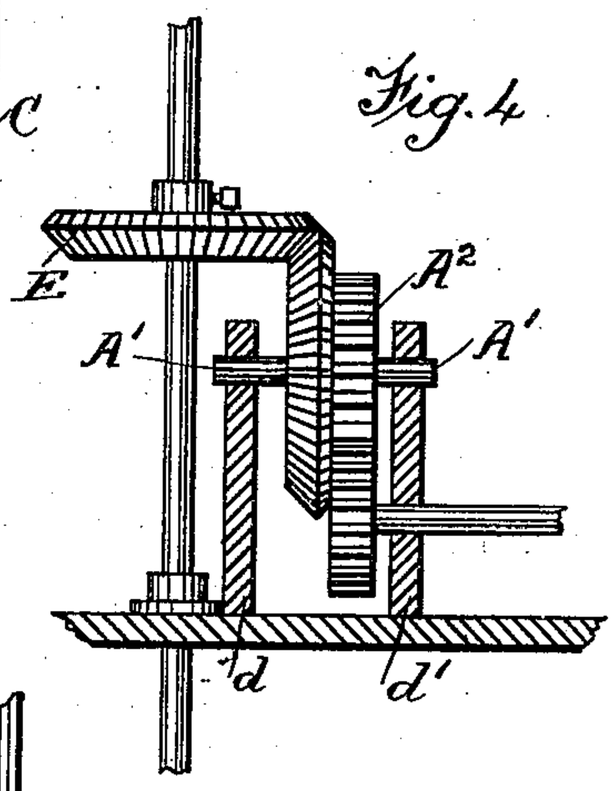
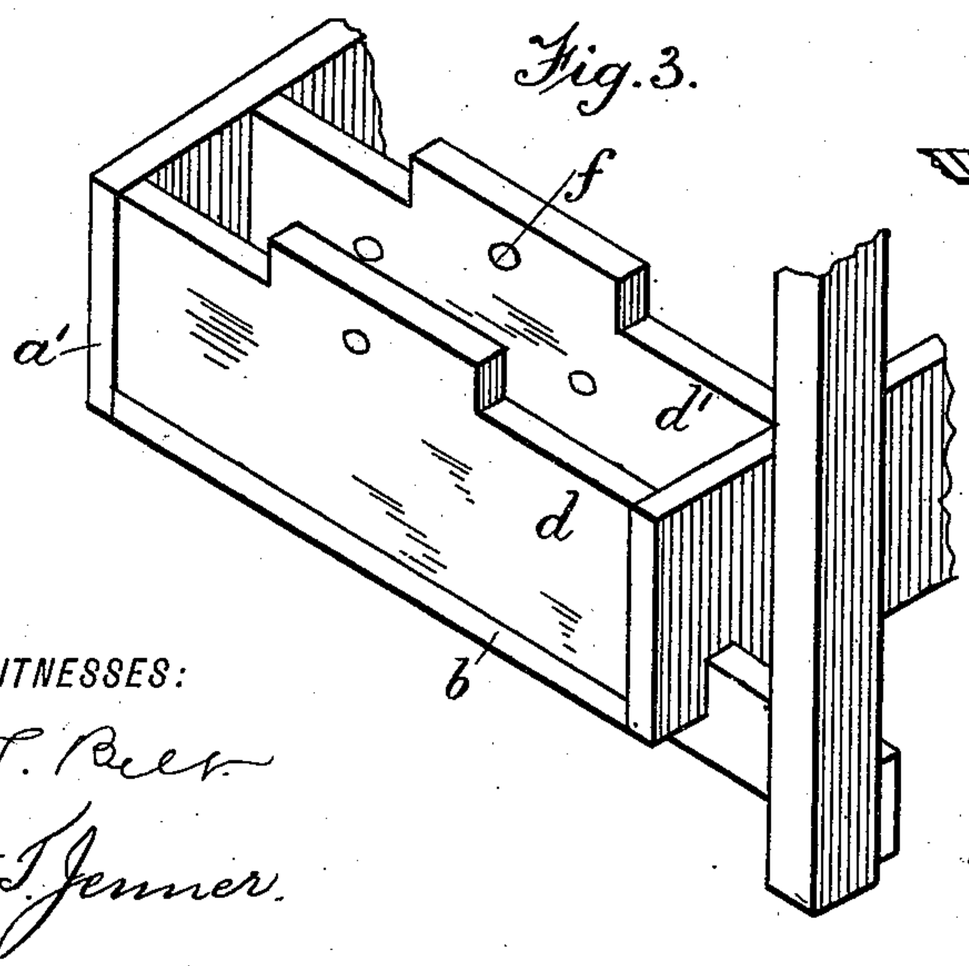


Fig. 3.



WITNESSES:

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BOLTING-CHEST.

SPECIFICATION forming part of Letters Patent No. 326,175, dated September 15, 1885.

Application filed September 5, 1884. (No model.)

To all whom it may concern:

Be it known that I, REUBEN M. TRUE, of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Bolting-Chests, of which the following is a specification.

In the bolting-chests as formerly used extra gearing-posts, brackets, ties, &c., were employed separate and apart from the main body of the machine, and connected therewith to form supports for the driving-shaft. This has necessitated a great expenditure of time, labor, and money in the manufacture of the machine, and extra room to accommodate it and its appurtenances. My invention overcomes these defects, and saves time and labor in manufacture, is simple of construction, and makes the machine cheaper and neater.

The several features of my invention and the various additional advantages resulting from their use, conjointly or otherwise, will be more fully apparent from the following specification and claims.

In the accompanying drawings, making a part of this specification, Figure 1 is a perspective view showing my invention attached to a bolting-chest. Fig. 2 is a perspective view of the journal-bearing and a part of the shaft, showing the latter passing through end bearing, the shaft and bearing being detached from the conveyer. Fig. 3 is a perspective view of the heads which inclose the gearing and support the journal-bearing for the shaft. Fig. 4 is a transverse central section of the housing, and showing the gearing in elevation.

A indicates the upright shaft which drives the reels and conveyers of the chest, and power may be employed to operate it at any point, and it is journaled in any suitable manner—as, for example, box B in the floor—and extends the entire height of the bolting-chest.

I will now describe one set of shafts and gearing in connection with which my invention can be used.

A′ represents a short counter-shaft, which operates the compound gear A^2, suitably supported and journaled at *f* in the head of the conveyer.

C represents the conveyers. A frame-work, D D′, supports the conveyers and reels. The conveyers C are provided with sides *a a′* and bottom *b*, suitably secured together, which sides and bottom are extended beyond the frame-work D D′ of the machine, and are also provided with the ends or heads *d d′*. On the outside of the head *d*, I fasten or attach by any preferable means the journal-box *e*, which supports the shaft, and thus dispense with the brackets, &c., which were formerly used to support the shaft. Similar means are employed on each conveyer, and as many conveyers may be employed as desired.

The extension of the sides and bottom of the conveyer, and the attachment of the head *d*, also provides a suitable housing for the gears, &c., and protects any one from being caught in the gears.

The various brackets and the like which have formerly been employed to support the shaft A and counter-shaft A′ have been found unsatisfactory, and my improved mode of extending the conveyer has secured a solid substantial bearing for the shaft and counter-shaft.

The driving-shaft A carries at various points gear or pinion wheels, as E E, which mesh with gear-wheels, as A^2 A^3, at the ends of the conveyers or reels. The compound gear-wheel A^2 meshes with the gears F F.

While the various features of my invention are preferably used together, one or more of said features may be used without the remainder, and one or more of said features may be used, so far as applicable, with conveyers of an internal construction other than that herein particularly described.

What I claim as new and of my invention, and desire to secure by Letters Patent, is—

1. The combination of the bolting-chest frame, the conveyer-shaft, the driving-shaft, the counter-shaft, and the conveyer-box extending beyond the frame to form a support for the driving-shaft and counter-shaft, substantially as and for the purpose specified.

2. The combination of the bolting-chest, the driving-shaft, the conveyer-shaft, the gearing, the conveyer-box extended beyond the bolting-chest, as described, and the heads

d d', the whole forming a housing for the gears, and a support for the driving-shaft and counter-shaft, substantially as and for the purposes specified.

3. In a bolting-chest, the combination of the bolting-chest, the conveyer-box extending beyond the bolting-chest, and the driving-shaft and accompanying gearing supported by said conveyer, substantially as set forth.

REUBEN M. TRUE.

Witnesses:
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