

No. 640,623.

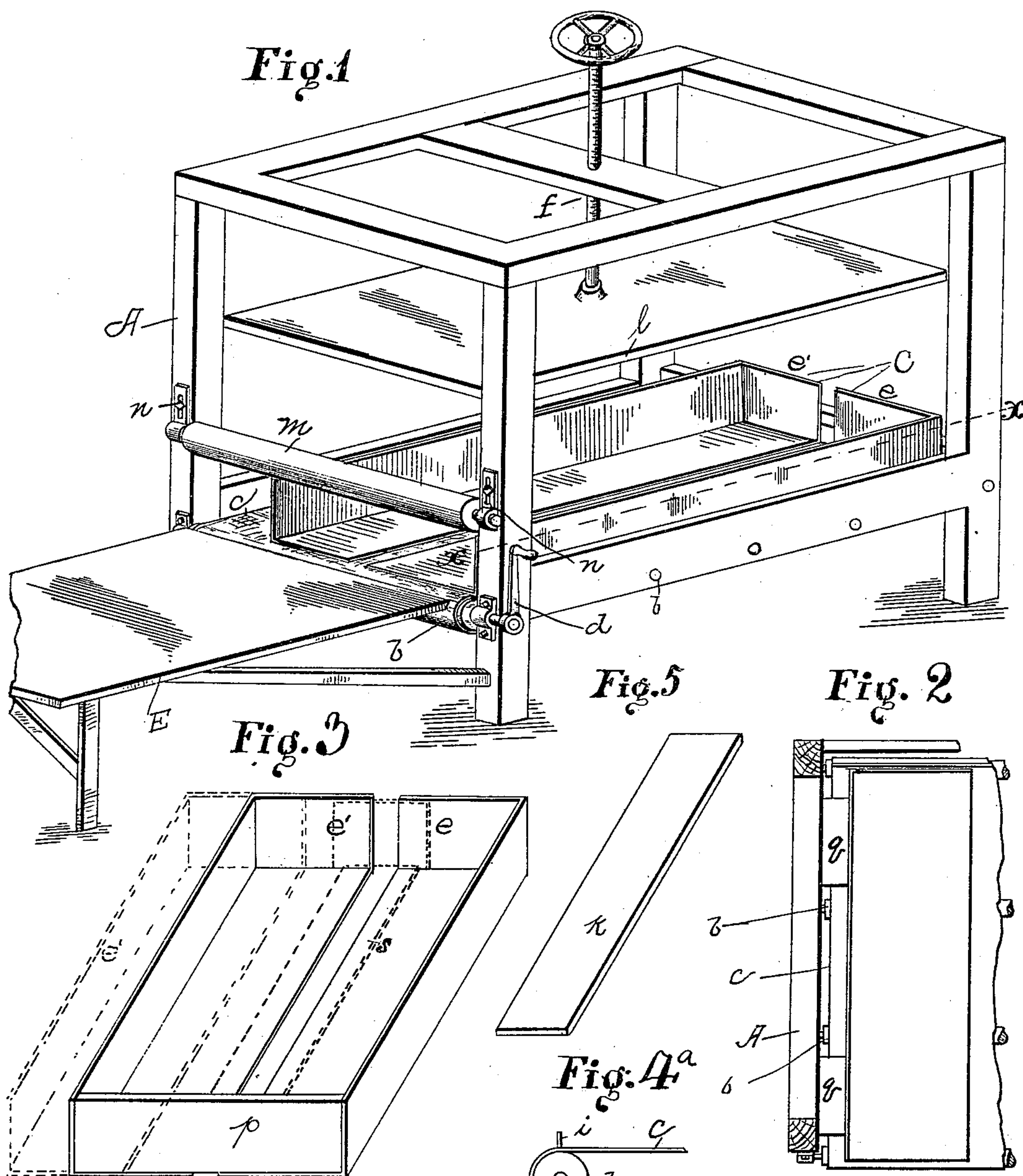
Patented Jan. 2, 1900.

B. I. BLOCK.
APPARATUS FOR FILLING MATTRESSES.

(Application filed Jan. 4, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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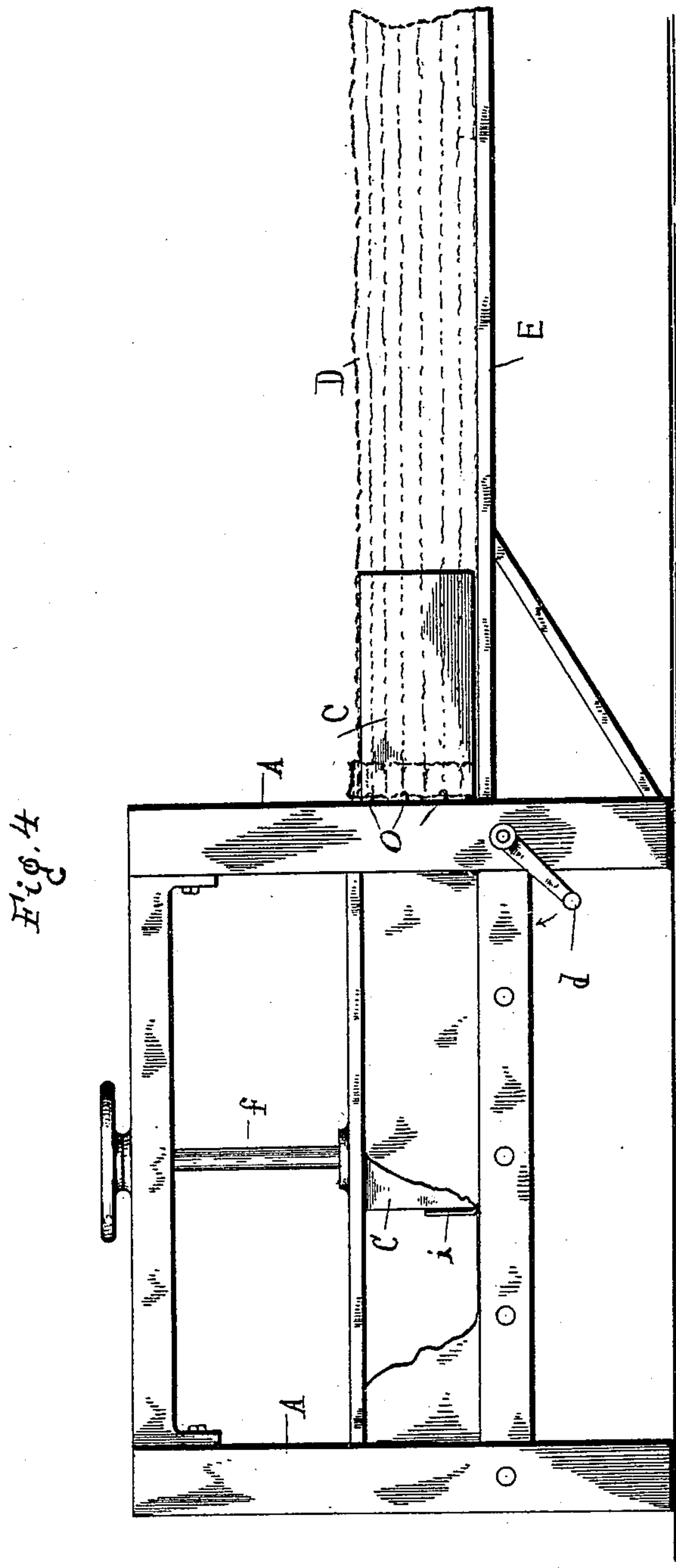
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WITNESSES:

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UNITED STATES PATENT OFFICE.

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APPARATUS FOR FILLING MATTRESSES.

SPECIFICATION forming part of Letters Patent No. 640,623, dated January 2, 1900.

Application filed January 4, 1899. Serial No. 701,093. (No model.)

To all whom it may concern:

Be it known that I, BARNEY I. BLOCK, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Apparatus for Filling Mattresses; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 indicates a perspective view of my improved mattress-filling apparatus. Fig. 2 is a view, partly in section, of the frame, taken on lines *xx* of Fig. 1 through the vertical posts of said frame, also plan view of a portion of the receptacle and carrier. Fig. 3 is a perspective view of the adjustable filling box or receptacle. Fig. 4 is a side elevation showing method of filling mattresses. Fig. 4^a is a detail of one of the rollers *b* and a portion of the continuous band or carrier. Fig. 5 is a perspective view of one of the compressor bars.

My invention relates to apparatus for filling mattresses.

The object of my invention is to produce an apparatus adapted to produce mattresses of varying widths, lengths, and depths or thicknesses and at the same time insert mattress-filling material in a cover in suchwise as to remove all unevenness of surface and unevenness of compression or packing therein, thus producing a mattress having a uniformly even exterior surface and being of uniform density throughout.

I will now describe my invention, reference being had to the accompanying drawings, which form a part of this specification, in which like reference characters indicate like parts wherever they occur throughout the several views thereof.

Referring to said drawings, A is a frame of any suitable construction, in which, near the bottom, are suitably journaled a series of rollers *b*, on which an endless belt or carrier *c* is adapted to travel when power is applied to either of the spindles on which said rollers are mounted. A crank *d* is shown for

the purpose of applying power to the forward one of the spindles; but it is obvious that power may be applied in any suitable manner.

C is a receptacle comprising the parts *e* and *e'* of a width, length, and height approximately of the mattress desired to be filled. The said parts *e* and *e'* are adapted to slide one within the other or to be withdrawn from each other, as shown in Fig. 3, whereby mattresses of varying widths may be formed. Blocks *q q* are inserted between the side of the frame and said part *e* to admit of its adjustment widthwise, and when parts *e e'* are widely distended, as shown in Fig. 3, for very wide mattresses a center piece is inserted between the parts *e* and *e'*. The end piece *p* is adapted to be adjusted between the said parts *e* and *e'* at different points in order that mattresses of different lengths may be formed. The said receptacle C is placed upon the endless belt, the end of the same resting against the upwardly-projecting abutments or pins *i* of the belt or chain to enable said receptacle to be carried forward upon the rotation of said belt. The receptacle is uniformly and evenly filled with mattress-filling material and the same compressed or compacted uniformly and firmly therein, compressing-boards *k* being placed longitudinally of the receptacle upon the material beneath the compressing-screw *f*, the lower end of which is seated in the compressor plate or board *l*. Pressure from the screw *f* or other suitable means may be used to compact the material in the receptacle to enable the receptacle, with the material therein, to pass between the forward roller *b* and the roller *m*, which is journaled in adjustable bearings *n n* to enable the said roller *m* to be lowered and elevated to accommodate different thicknesses of mattresses.

When the receptacle is properly filled and the mattress-cover D held open, the operator by applying power causes the endless belt to travel, carrying the receptacle forward between the rollers *b* and *m*, and inserts the same into the mattress-cover D, which is supported upon the platform E, arranged at the forward end of the apparatus. The end of the mattress-cover D is secured to hooks *o* to hold

said mattress-cover stationary while the receptacle is being inserted therein. It is understood that the end piece *p* has been removed previous to the inserting of the receptacle within the mattress-cover, the compressor-boards *k* are withdrawn, and the parts *e* and *e'* removed, leaving the mattress-filling material within the cover.

Some of the advantages obtained by the use of my improved apparatus are economy in space, power, and time in filling the mattress.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an apparatus for filling mattresses, the combination of a frame, a carrier apparatus mounted in said frame, a receptacle for mattress-filling material adapted to be supported and conveyed by said carrier apparatus, the said receptacle being formed of two parts whereby the same may be widened and contracted, and means to compress the material

within said receptacle, substantially as set forth.

2. In an apparatus for filling mattresses, the combination of a frame, a carrier apparatus mounted in said frame comprising an endless belt having upwardly-projecting abutments thereon to enable said receptacle to be carried forward upon the rotation of said belt, a receptacle for mattress-filling material adapted to be narrowed or widened, the said receptacle having an end piece adapted to be adjusted in different positions, in combination with means to compress the material in said receptacle, substantially as herein set forth.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

BARNEY I. BLOCK.

Witnesses:

JNO. H. RONEY,
C. A. WILLIAMS.