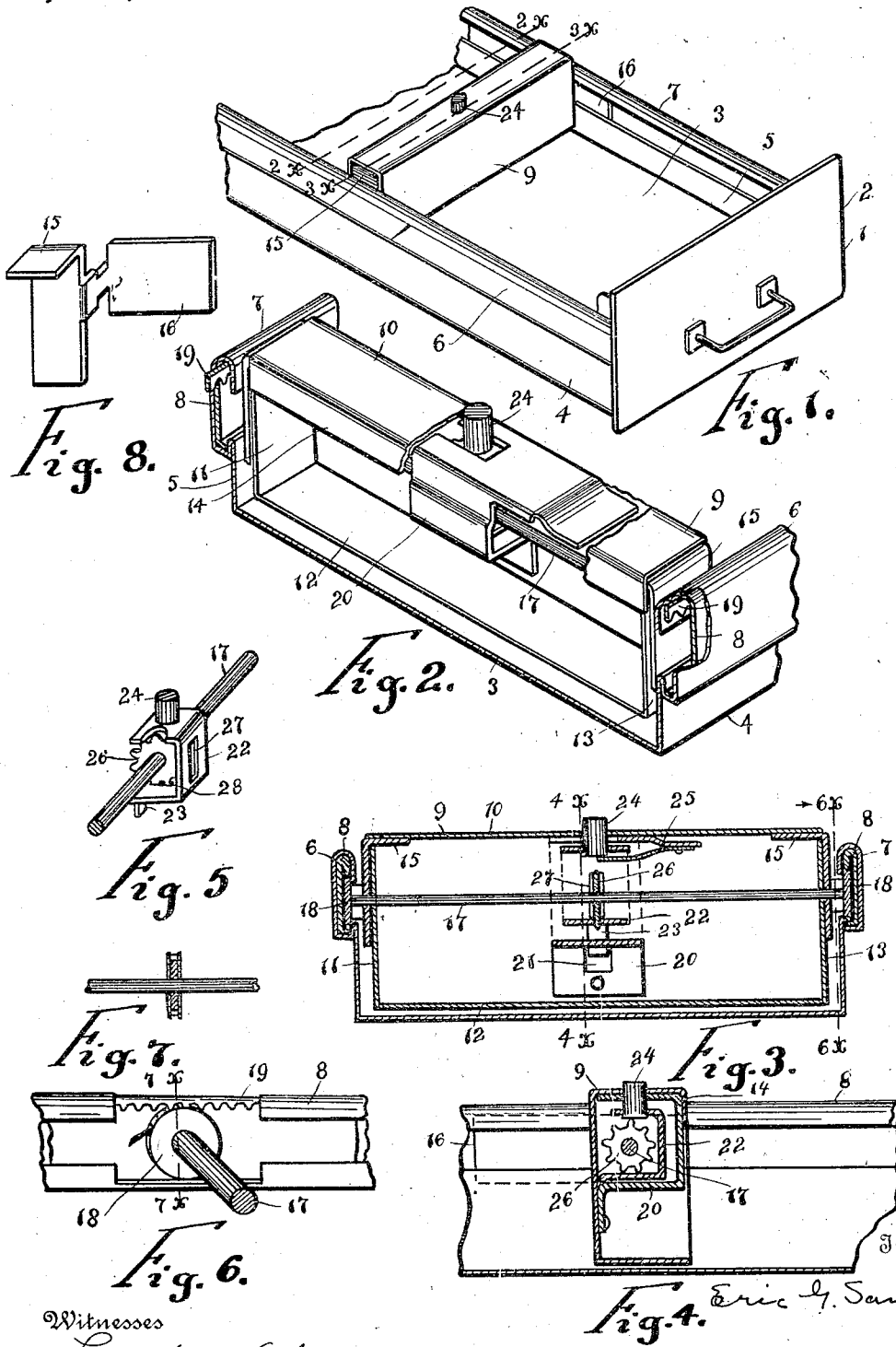


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COMPRESSOR FOR FILE DRAWERS.
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Patented June 10, 1913.



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COMPRESSOR FOR FILE-DRAWERS.

1,064,382.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ERIC G. SAMPSON, a citizen of the United States, residing at Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Compressors for File-Drawers, of which the following is a specification.

The object of this invention is to provide an improved compressor for file drawers.

A further object of this invention is to provide means for automatically locking the compressor in any position in the drawer.

A further object of the invention is to provide means to cause said compressor to travel uniformly at both ends along the drawer, preventing the compressor from getting out of its proper transverse alignment in the drawer.

These and other objects of my invention will be fully described in the specification, illustrated in the drawings and pointed out in the claims at the end thereof.

In the accompanying drawings, Figure 1 is a perspective view of the drawer provided with my improved file drawer compressor. Fig. 2 is an enlarged perspective view of the compressor showing a fragmentary view of the drawer partly broken away for the purpose of illustrating concealed parts, the view being taken on the section line 2*-2* in Fig. 1. Fig. 3 is a vertical transverse section on the line 3*-3* of Fig. 1. Fig. 4 is a section on the line 4*-4* of Fig. 3. Fig. 5 is a perspective detail view of the locking latch for the compressor. Fig. 6 is a sectional elevation taken on the line 6*-6* in Fig. 3, the supporting channels for the rack being partly broken away. Fig. 7 is a section on the line 7*-7* of Fig. 6.

In the accompanying drawings like reference numerals refer to like parts.

In the drawings reference numeral 1 indicates a drawer of ordinary construction having the front end 2, the bottom 3 and the sides 4 and 5. The upper part of the side is bent to form channels 6 and 7, which channels may if so desired, however, be separately formed and riveted to the sides of the drawer. Mounted rigidly in each of these channels is a rack plate 8, being shaped in cross section as shown in Fig. 3. Mounted to slide in the channels 6 and 7 is the compressor 9, which is formed preferably of a single piece of metal which is cut out

at the corners and bent up to form the four sides as shown at 10, 11, 12 and 13 in Fig. 2. The top 10 has the down turned edge 14. Attached to each end of this compressor are the brackets 15 having the runners 16 formed integral therewith, adapted to engage with and run in the channels 6 and 7 for the purpose of steadying the compressor 9 in its movement along the drawer and holding it to a right line motion.

The brackets 15 are perforated for the purpose of forming a bearing therein for the shaft 17. This shaft at each end thereof has the gear wheel 18 attached thereto, which gear meshes with a rack 19 formed in the upper edge of the rack plate 8, which plate is bent over and down, placing the rack 19 in an inverted position and engaging the gear wheel 18 on top. By means of the racks and gear wheels and the runners 16, the compressor 9 is held to a proper right line even motion in traveling from one end of the drawer to the other.

Fastened to the compressor 9 is the bracket 20, which bracket is slotted at 21. Mounted to reciprocate vertically in the bracket 21 is the latch 22, which latch has a runner 23 engaging with and traveling in the slot 21 in the bracket 20. At the top the latch 22 has the push button 24 connected thereto, which push button projects through the top plate 10 of the compressor 9. A spring 25 is fastened to the bracket 20 and bears against the push button 24 from below, holding it in its raised position.

Keyed to the shaft 17 in the middle thereof is the gear wheel 26, which gear wheel revolves inside of the latch 22. The latch 22 is slotted at the side at 27 and at the bottom at 28. The ends of these slots are intended to engage with the gear wheel 26 for the purpose of arresting the motion thereof when the latch and its push button 24 are in the elevated position, thus holding the compressor 9 locked in whatever position it may be placed in the drawer, but when depressed the gear wheel 26 is free to rotate and the compressor 9 may then be moved forward and back freely along the drawer.

From the foregoing it will be seen that the compressor is permitted to slide freely along the drawer but is rigidly held always to a position that is perpendicular to the sides of the drawer and parallel to the front and back of it, and that by releasing the but-

ton the compressor is automatically locked in any position in which it may be placed.

Having thus described my invention, what I claim as new and patentable is as follows:

5 1. The combination in a file drawer of a compressor, channels formed in the sides of said drawer, rack bars supported in said channels, a shaft mounted in said compressor having gears on each end thereof en-
10 gaging with said rack bars, a gear wheel keyed to said shaft intermediate the ends thereof, a button supported in said compressor and projecting through the top of said compressor having a latch thereon with
15 which said gear wheel is adapted to engage and be locked thereby when the button is in its elevated position, and from which said gear wheel is disengaged and left free to rotate when said button is in its depressed
20 position.

2. The combination in a file drawer of a compressor, channels formed in the sides of said drawer, rack bars supported in said channels, a shaft mounted in said compressor having gears on each end thereof en-
25 gaging with said rack bars, a gear wheel keyed to said shaft intermediate the ends thereof, a button supported in said compressor and projecting through the top of
30 said compressor, having a latch thereon with which said gear wheel is adapted to engage and be locked thereby when the button is in its elevated position, and from which
35 said gear wheel is disengaged and left free to rotate when said button is in its depressed position, a spring for holding said button and said latch in their raised position.

3. In a file drawer the combination of a compressor, a shaft mounted to rotate therein, gears on said shaft, racks mounted in the
40 file drawer adjacent said compressor, said gears meshing with said racks, a gear wheel on said shaft, a latch moving transversely of said gear wheel and adapted to lock said
45 gear wheel against rotation in either direction or release said gear wheel.

4. In a file drawer the combination of a compressor, a shaft mounted to rotate therein, gears on said shaft, racks mounted in the
50 file drawer adjacent said compressor, said gears meshing with said racks, a gear wheel on said shaft, a latch moving transversely of said gear wheel and adapted to lock said

gear wheel against rotation in either direction or release said gear wheel, a spring en- 55
gaging said latch to hold it in locking position, a push button mounted on said latch and projecting through the compressor, by which said latch may be moved to unlock-
60 ing position.

5. In a file drawer, the combination of a compressor, a shaft and gear wheel mounted to rotate therein, a latch having a button thereon extending up through the top of the compressor and having a slotted plate 65
at the bottom thereof extending horizontally under the gear wheel, a spring for holding up said latch with said slotted plate in engagement with said gear wheel, a gear on each end of said shaft, racks mounted 70
in the file drawer adjacent said compressor, said gears meshing with said racks and turning said shaft on the movement of the compressor.

6. In a file drawer, the combination of a 75
compressor, a shaft and gear wheel mounted to rotate therein, a latch having a button thereon extending up through the top of the compressor and having a guide on the bottom thereof by which it is held to a 80
right line motion into and out of engagement with said gear wheel, said latch being shaped to positively engage with said gear wheel and lock it against rotation, a gear on each end of said shaft, racks mounted 85
in the file drawer adjacent said compressor, said gears meshing with said racks and turning said shaft on the movement of the compressor.

7. In a file drawer, the combination of a 90
compressor mounted to slide therein, channels formed in the sides of said drawer opening inward toward said compressor, brackets having two parallel plates thereon with a narrow arm connecting them, one 95
of said plates having a perpendicular flange thereon being attached thereby to the compressor and the other plate extending into and engaging with said channel.

In testimony whereof I affix my signa- 100
ture in presence of two witnesses.

ERIC G. SAMPSON.

Witnesses:

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R. G. BULLOCH.