July 12, 1927. 1,635,334

F. B. MITCHELL

REVOLVING STORE FIXTURE

Filed Jan. 26, 1925 2 Sheets-Sheet 1

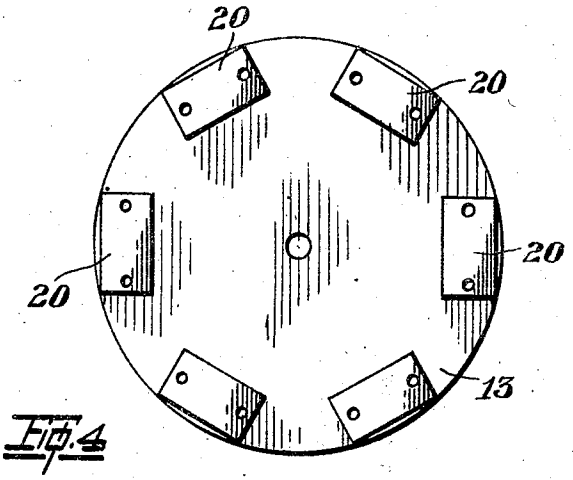


Fig. 4

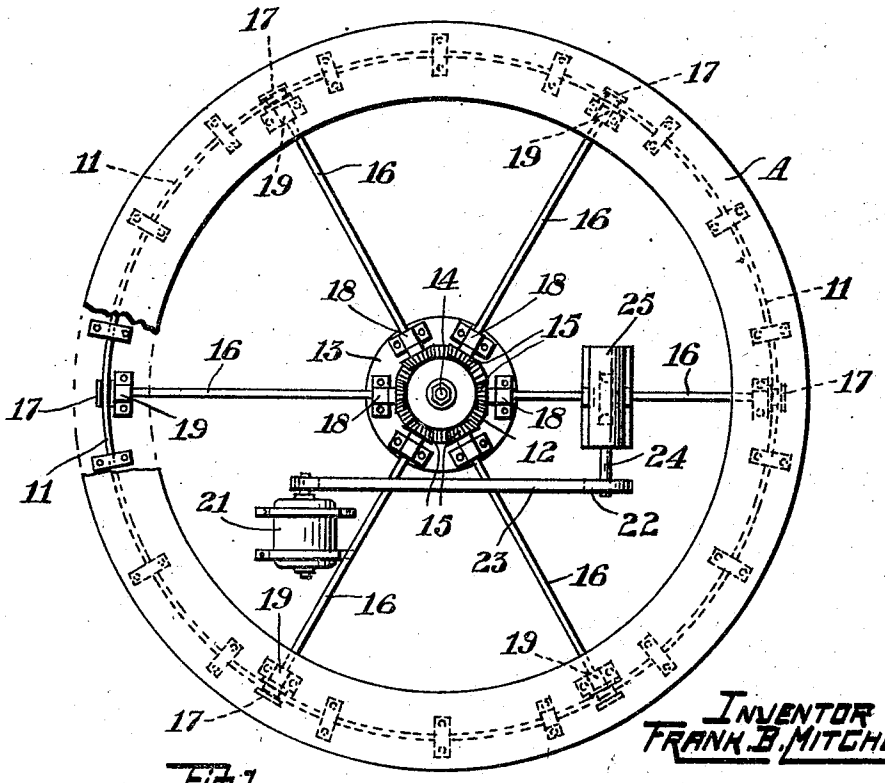


Fig. 1

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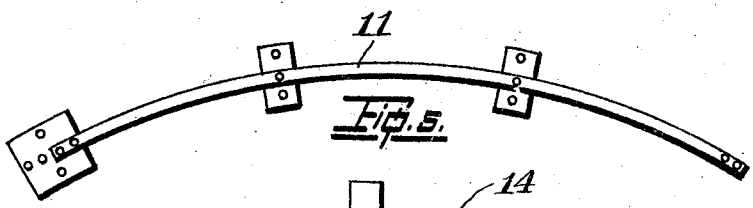


Fig. 5.

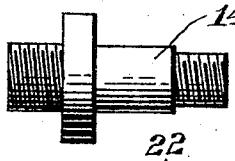


Fig. 6.

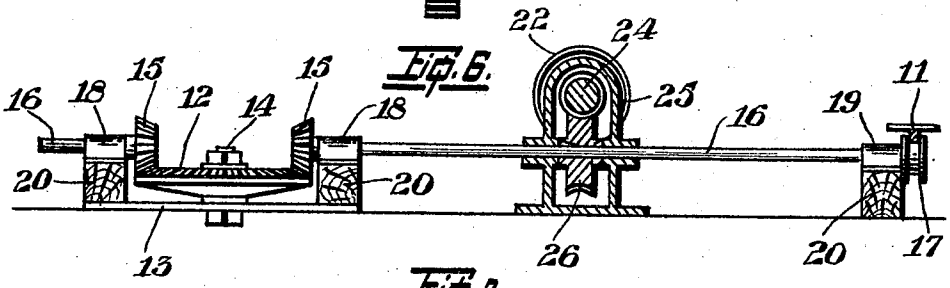


Fig. 3.

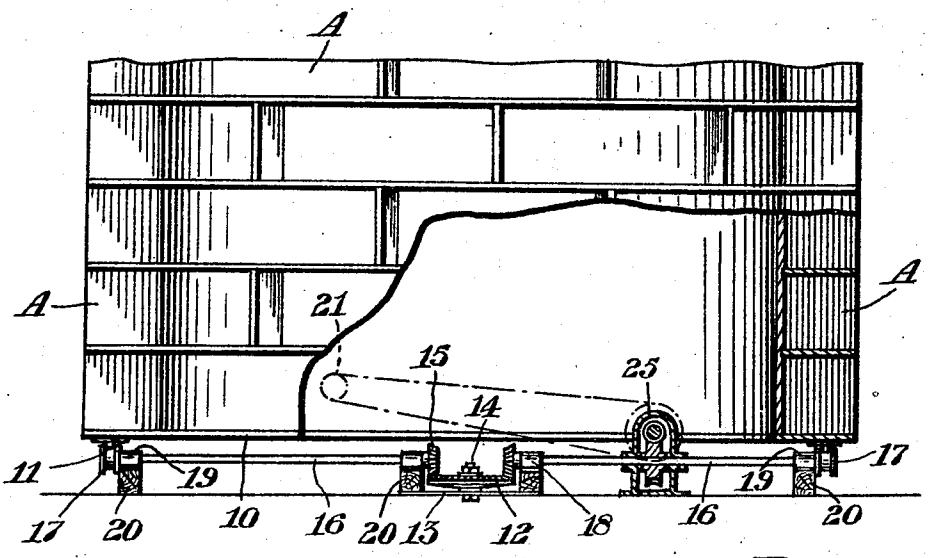


Fig. 2.

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UNITED STATES PATENT OFFICE.

FRANK BICKNELL MITCHELL, OF REGINA, SASKATCHEWAN, CANADA.

REVOLVING STORE FIXTURE.

Application filed January 26, 1925. Serial No. 4,850.

This invention relates to improvements in store fixtures and more particularly to fixtures of the revolving type and the objects of the invention are to provide a simply constructed, durable device of this character, adapted to be placed between a store and a warehouse or the like supplying the store, for the convenient delivery of goods from the warehouse direct to the customers patronizing the store.

Further objects are to provide an improved store fixture of this character that can also be used for displaying the goods to be sold.

A still further object is the provision of labour saving means of this description whereby the goods or the like in a warehouse can be placed thereon and delivered to purchasers in a store in practically one operation and whereby instead of first carrying the goods from the warehouse and then arranging them in the store they are arranged on my improved device in the warehouse, which on being rotated displays the articles to the would-be purchasers in the store. In short my improved store fixture constitutes a combined delivering and displaying stand for goods.

With the foregoing and other objects in view, the invention consists essentially of a plurality of shelves arranged one above the other, preferably of circular formation and adapted to be rotatably mounted between the store and a warehouse for supplying goods to the store, in such a manner that one-half of the shelving will communicate with the store or the like and the other half with the adjoining warehouse.

The invention therefore consists more essentially of a rotatable fixture adapted to be placed between a store and an adjoining warehouse or the like, whereby improved means for serving the public are provided and with the use of which considerable labour and time is saved.

Referring now to the drawings, in which like characters of reference indicate corresponding parts in each figure,

Figure 1 is a top plan view of the improved fixture complete,

Figure 2 is a side elevation of my improved fixture, partially broken away to show the operating means,

Figure 3 is a longitudinal section through one of the operating shafts.

Figure 4 is a plan view of the floor plate,

Figure 5 is a plan view of a section of the track, and

Figure 6 is a detail of the king stud.

In the drawings, A designates a plurality of shelves arranged one above the other as here shown in circular formation. On the under side of the base 10 of the shelves is arranged a circular track 11 whereby in combination with mechanism, hereinafter more fully described, the shelving is rotated.

This mechanism comprises, as illustrated more particularly in Figures 1 and 3, a crown gear 12 rotatably mounted on a floor plate 13 and held in position by a king stud 14. With this crown gear are designed to engage a plurality of bevelled pinions 15 mounted on a plurality of radiating shafts 16 on the other ends of which are flanged rollers 17 designed to engage with the circular track 11. The shafts 16 are rotatably mounted on suitably fixed bearings 18 and 19 supported by pillow blocks 20, the pillow blocks supporting the bearings 18 being carried by the floor plate 13, the whole being operated by means of the prime mover 21 connected to a pulley 22 by a belt 23. The pulley 22 is keyed to the shaft 24 which is rotatably mounted in the gear box 25, the inner end of the shaft 24 being formed with a worm adapted to engage the worm gear 26 keyed to one of the radial drive shafts 16.

From the foregoing it will be seen that on the motor or prime mover being operated the shaft 24 will be rotated, causing the worm 26 to rotate one of the shafts 16. The rotation of this shaft causes the bevel gear 15 which is in mesh with the crown gear 12 to rotate, thereby operating all the shafts 16 with the rollers 17 thereon. The guide rollers contacting with the track 11 cause it to rotate, thereby revolving the shelving.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention, within the scope of the claims, constructed without departing from the spirit or scope thereof, it is intended that all matter contained in the accompanying specification and drawings, shall be interpreted in an illustrative and not in a limiting sense.

What I claim as my invention is:

1. In a revolving store fixture, actuating mechanism comprising a prime mover, a drive shaft, a worm on the drive shaft, a rotatably mounted crown gear, a plurality

of radiating shafts provided with pinions adapted to engage with the crown gear, a worm gear keyed on one of the radiating shafts adapted to engage with the worm on the drive shaft, whereby, on the prime mover being operated, the crown gear and the radiating shafts are simultaneously operated, a guideway on the fixture and means carried by the radiating shafts adapted to engage with said guideway to rotate the fixture.

2. In a revolving store fixture, actuating mechanism comprising a prime mover, a drive shaft, a worm thereon, pulley and belt connecting means between the drive shaft and the prime mover, a crown gear, a plurality of radiating shafts provided with pinions adapted to mesh with the crown gear, one of said shafts being provided with a worm gear to engage with the worm on the drive shaft, whereby, the crown gear and the radiating shafts are operated on the prime mover being operated.

In witness whereof I have hereunto set my hand.

FRANK BICKNELL MITCHELL.