No. 834,318. PATENTED OCT. 30, 1906.

T. A. K. OREN.

DISPLAY REEL.

APPLICATION FILED SEPT. 6, 1905.

3 SHEETS—SHEET 1.

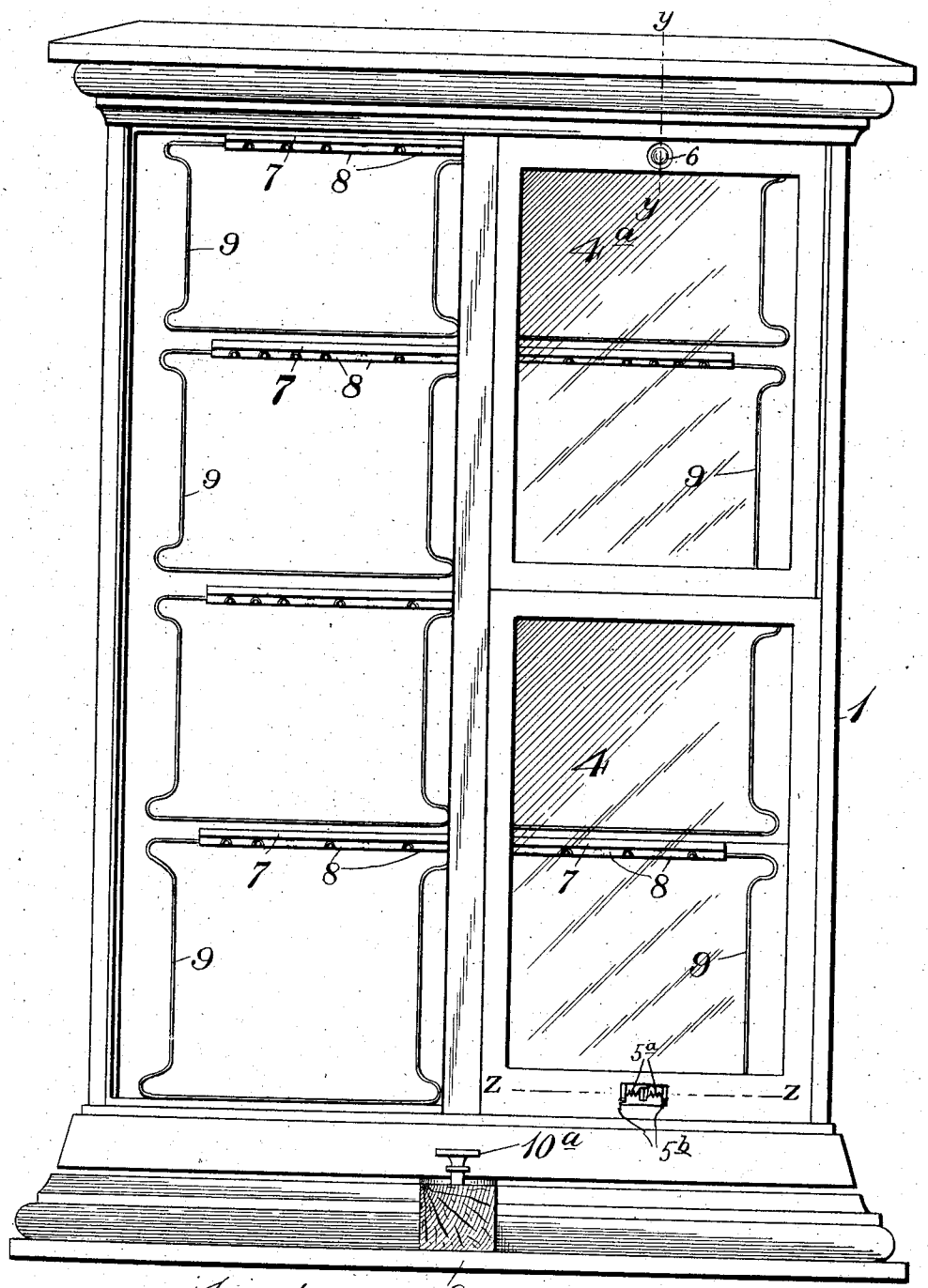


Fig. 1.

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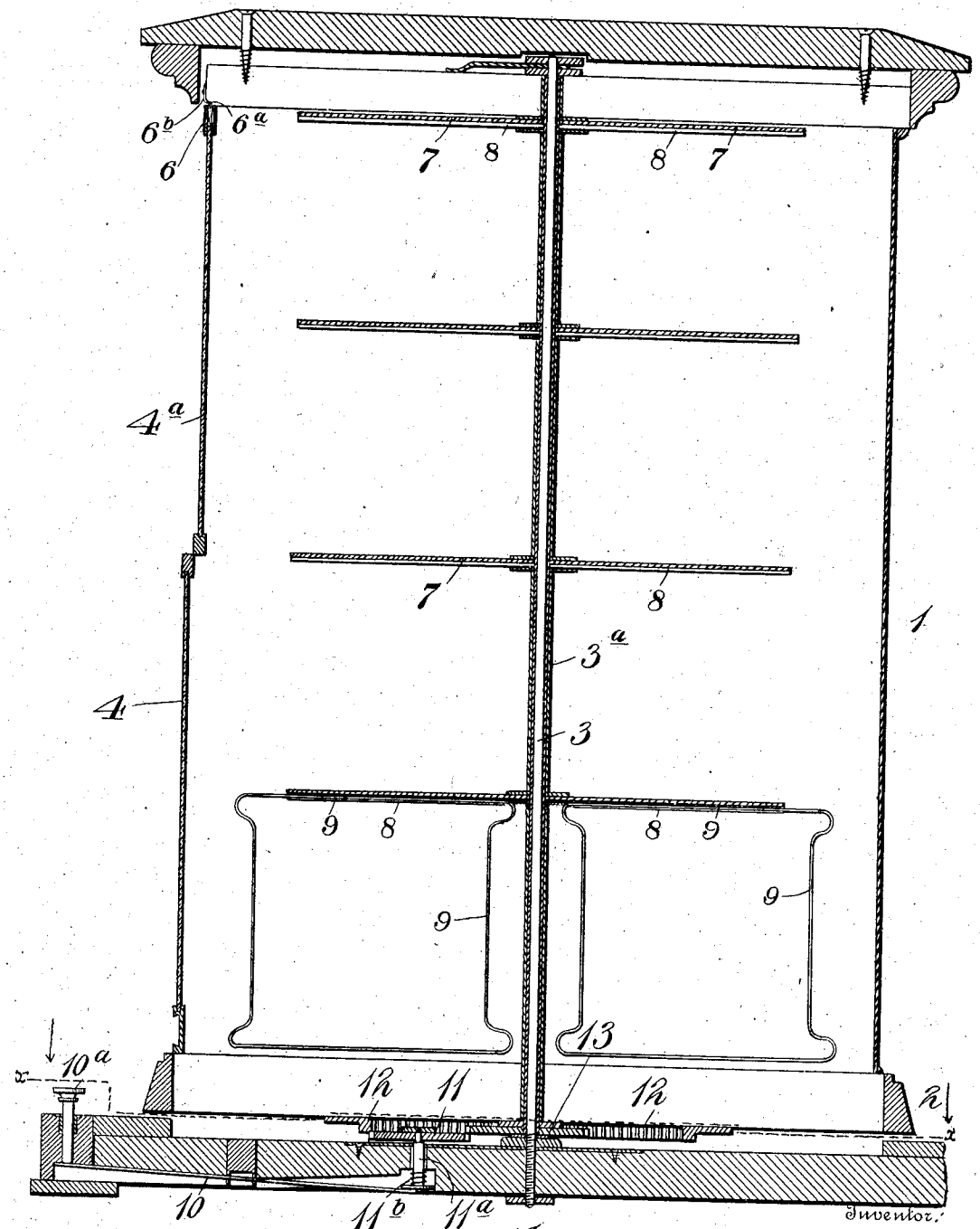
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3 SHEETS—SHEET 2.



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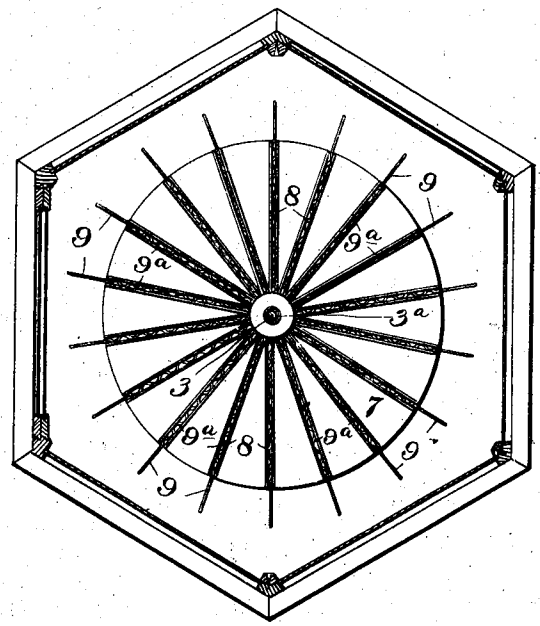
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3 SHEETS—SHEET 3.

Fig. 3.



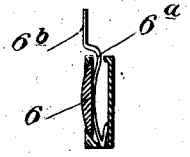


Fig. 5.

Fig. 4.

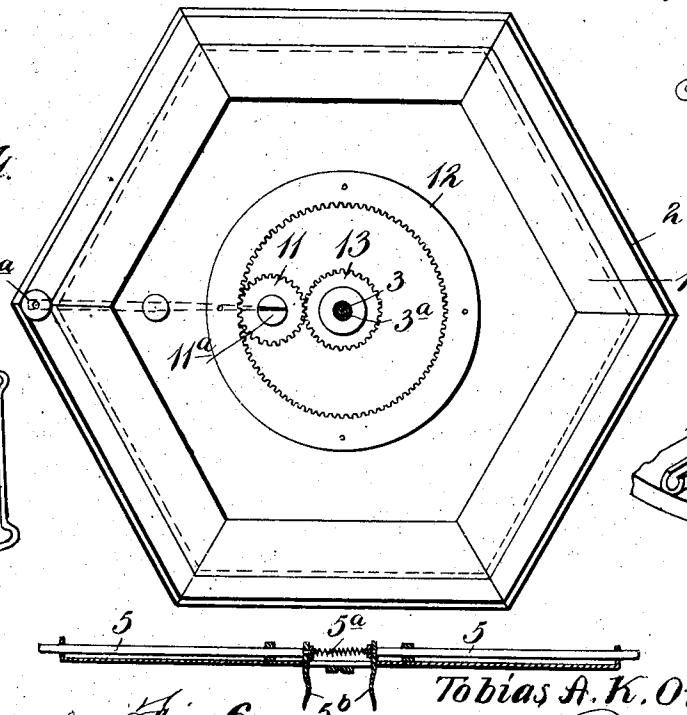


Fig. 7

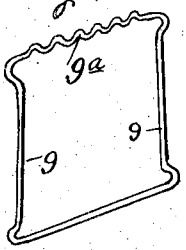


Fig. 8.

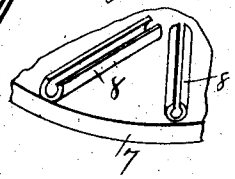


Fig. 6

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UNITED STATES PATENT OFFICE.

TOBIAS A. K. OREN, OF BORUP, MINNESOTA.

DISPLAY-REEL.

No. 834,318. Specification of Letters Patent. Patented Oct. 30, 1906.

Application filed September 6, 1905. Serial No. 277,251.

To all whom it may concern:

Be it known that I, TOBIAS A. K. OREN, a subject of the King of Sweden and Norway, residing at Borup, in the county of Norman and State of Minnesota, have invented new and useful Improvements in Display-Reels, of which the following is a specification.

My invention relates to improvements in what may be termed "display-reels" especially designed for exhibiting or displaying lace, ribbons, or other fabrics, or jewelry.

Objects of the invention are to carry out the aforesaid purposes in a simple, economic, and effective manner; also, to provide for conveniently presenting to view the various assortments of the articles to be exhibited or displayed without requiring the person to move from point to point to examine the case contents.

Said invention consists of certain structural features, substantially as hereinafter fully disclosed, and particularly pointed out by the claims.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a front elevation thereof. Fig. 2 is a vertical central section, and Fig. 3 is a horizontal or transverse section, of the same. Fig. 4 is a like section produced on the line *x x* of Fig. 2 viewing downward. Fig. 5 is a detailed vertical section taken on the line *y y* of Fig. 1. Fig. 6 is a detailed horizontal section produced on the line *z z* of Fig. 1. Fig. 7 is a detached perspective view of one of the sample-holding frames. Fig. 8 is a like broken view of the reel.

In the embodiment of my invention I provide a suitable case or inclosure 1, of hexagonal or other preferred outline in cross-section, superposed relatively to a base 2 and mounted or rotatable upon a vertical shaft 3, the lower end of which is fixed or screwed into said base. Said case has its respective faces or panels of transparent material or glass for obvious reasons, one of the same, however, constituting the entrance thereto, the closures or doors 4 4^a therefor being so arranged as that one may be slid vertically past the other. One (the lower) door or closure 4 is equipped with preferably oppositely projected or moved bolts or dogs 5, normally thus held by a spring 5^a interposed between the inner or opposed ends of the latter, the effective ends of said bolts being received in notches or sockets of the case 1 for the retention in place of said door or closure. Said bolts or dogs are provided with finger-actuated pieces 5^b, effective to be conjointly grasped and moved by the hand. The upper door is equipped with a spring-cushioned push-button 6, with its spring 6^a adapted to engage or interlock with the face end of a spring dog or catch 6^b, fastened at its opposite end to the case 1 for securing that door in place.

Upon the shaft 3 is slipped or inserted a number of tube or sleeve sections 3^a, to and between which are suitably secured or held at requisite intervals apart disks or arms 7, constituting the reel, each arm or disk having fixed or applied radially to its under side numerous horizontal split tubes or brackets 8. These latter are effective for the suspension therefrom of frames, spindles, or "bobbins" 9, preferably of wire, upon which may be placed samples of the silk, lace, or other fabric, or jewelry desired to be displayed or exhibited, as will be readily understood. Said frames, spindles, or bobbins have their horizontal or upper and lower wire members or continuations preferably crimped, as at 9^a, whereby they are held from vertical displacement, and yet they may be moved along the split tubes or brackets upon or off the same, the purpose of which is apparent.

In the base 2 is fulcrumed a lever 10, having connected thereto at one end a headed push-pin 10^a, with its head end normally standing above said base. The opposite end of said lever bears the shaft 11^a of a pinion 11, arranged within the plane of said base, and upon said shaft is arranged a spring 11^b, effective to automatically depress said pinion and accordingly elevate the headed end of said push-pin.

A cogged or toothed annulus 12 is suitably applied or secured to the under side of the base-frame of the case or inclosure 1, while to a sleeve-section 3^a of the reel member bearing the disks or arms 7 is fixed a pinion 13. It will be noted that when it may be desired to bring opposite the operator or person who may wish to inspect or examine the various samples suspended within the case or inclosure pressure is applied to the push-pin 10^a, which will have the effect to lift the pinion 11 into engagement or gear with the annulus 12 and pinion 13. Now by simply turning the case in the required direction, continued pressure, of course, being exerted upon the push-pin, the gearing 11, 12, and 13 will be effective to accordingly revolve the

reel, and thus suitably display or exhibit the samples for convenient observation, as is apparent.

I claim—

1. A contrivance of the character described, comprising a reel equipped with means for displaying or exhibiting goods, an inclosing case therefor, and lever and gear mechanism effective for the rotation of said reel, with the turning of said inclosing case and exerting pressure upon said lever.

2. A contrivance of the character described, comprising a reel equipped with means for displaying or exhibiting goods and with a pinion, an inclosing case therefor provided with a toothed or cogged annulus, a push-pin-equipped lever carrying a pinion effective for shipment into gear with said annulus and aforesaid pinion by exerting pressure upon the push-pin of said lever.

In testimony whereof I affix my signature in presence of two subscribing witnesses.

TOBIAS A. K. OREN.

Witnesses:

M. A. BRATTLAND,

ANNA CONGER.