

No. 652,684.

Patented June 26, 1900.

C. OLSEN.

APPARATUS FOR DISPLAYING SAMPLES OF WALL PAPER.

(Application filed Nov. 2, 1899.)

(No Model.)

2 Sheets—Sheet 2.

Fig. 4.

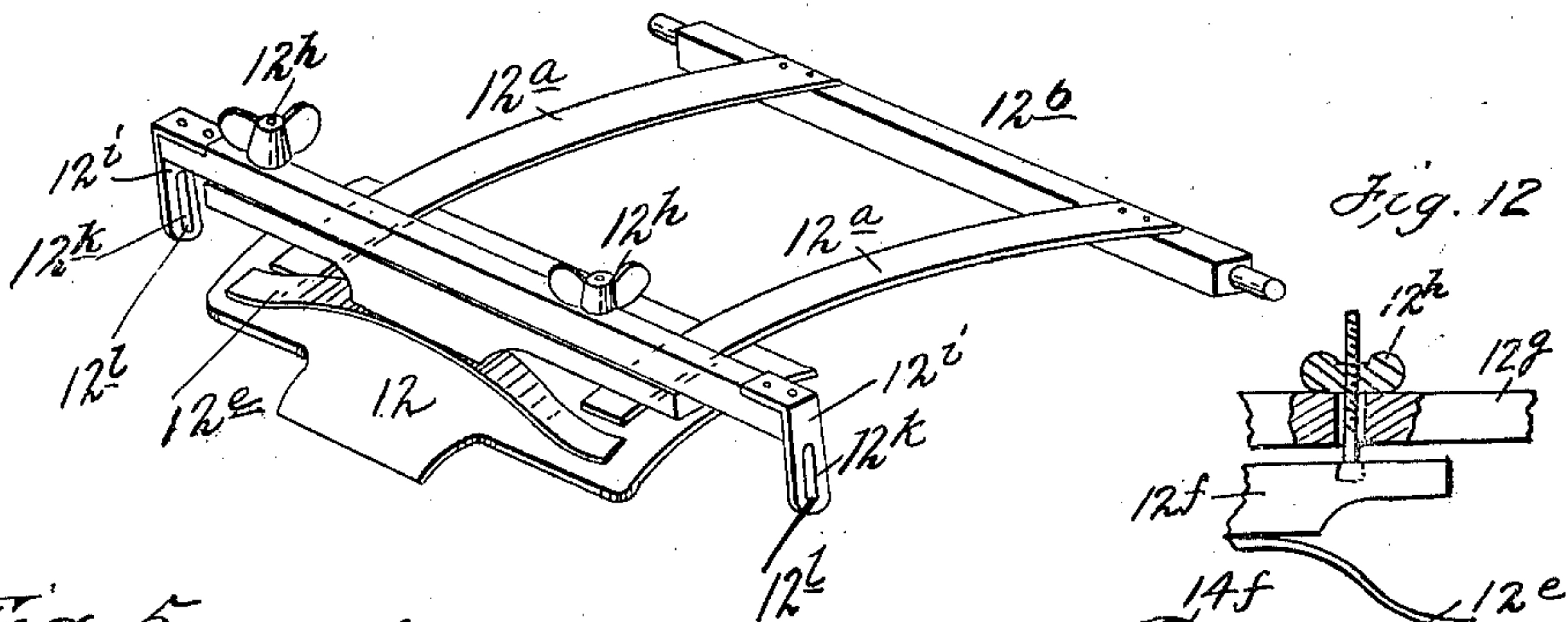


Fig. 5.

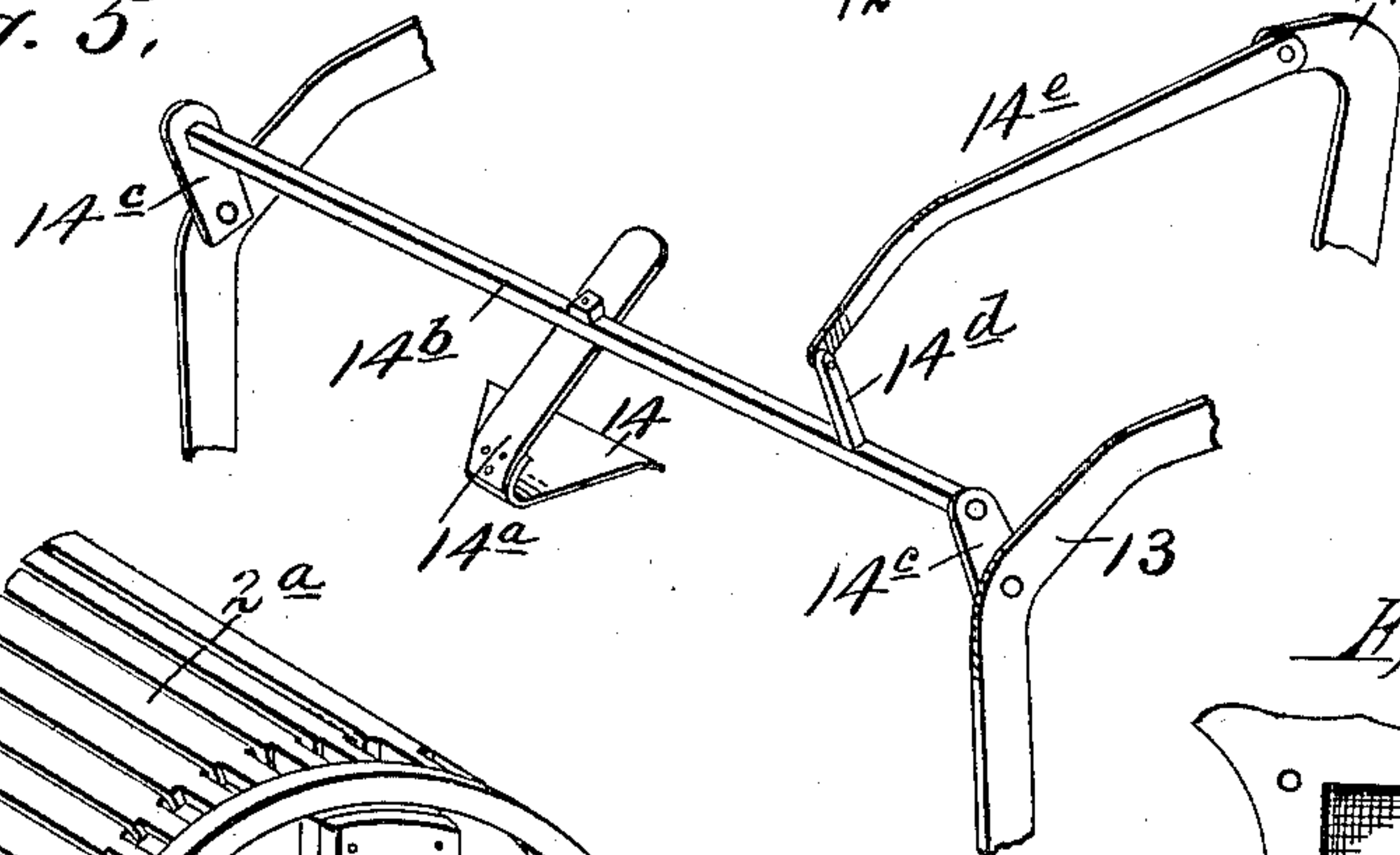


Fig. 6.

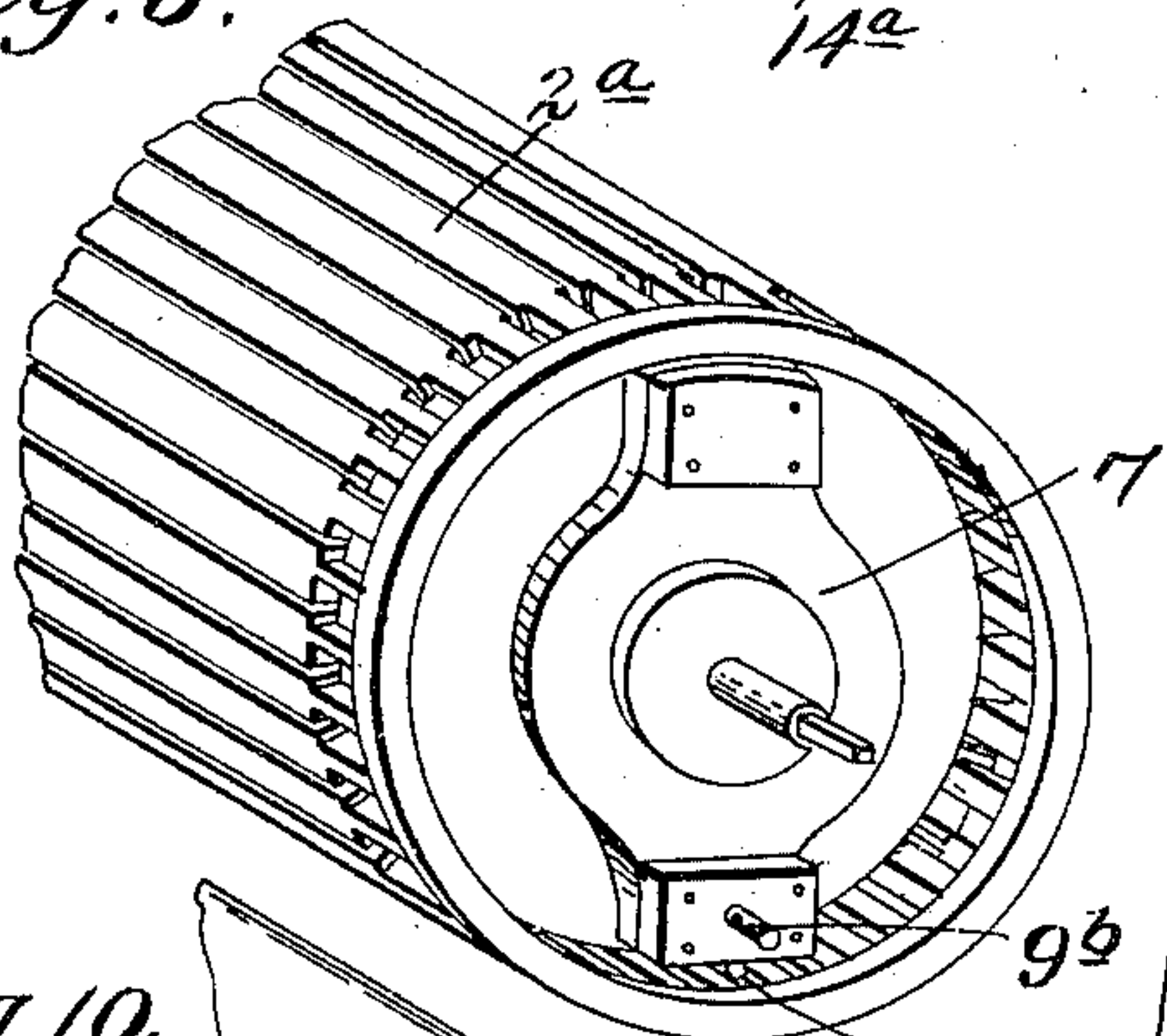


Fig. 10.

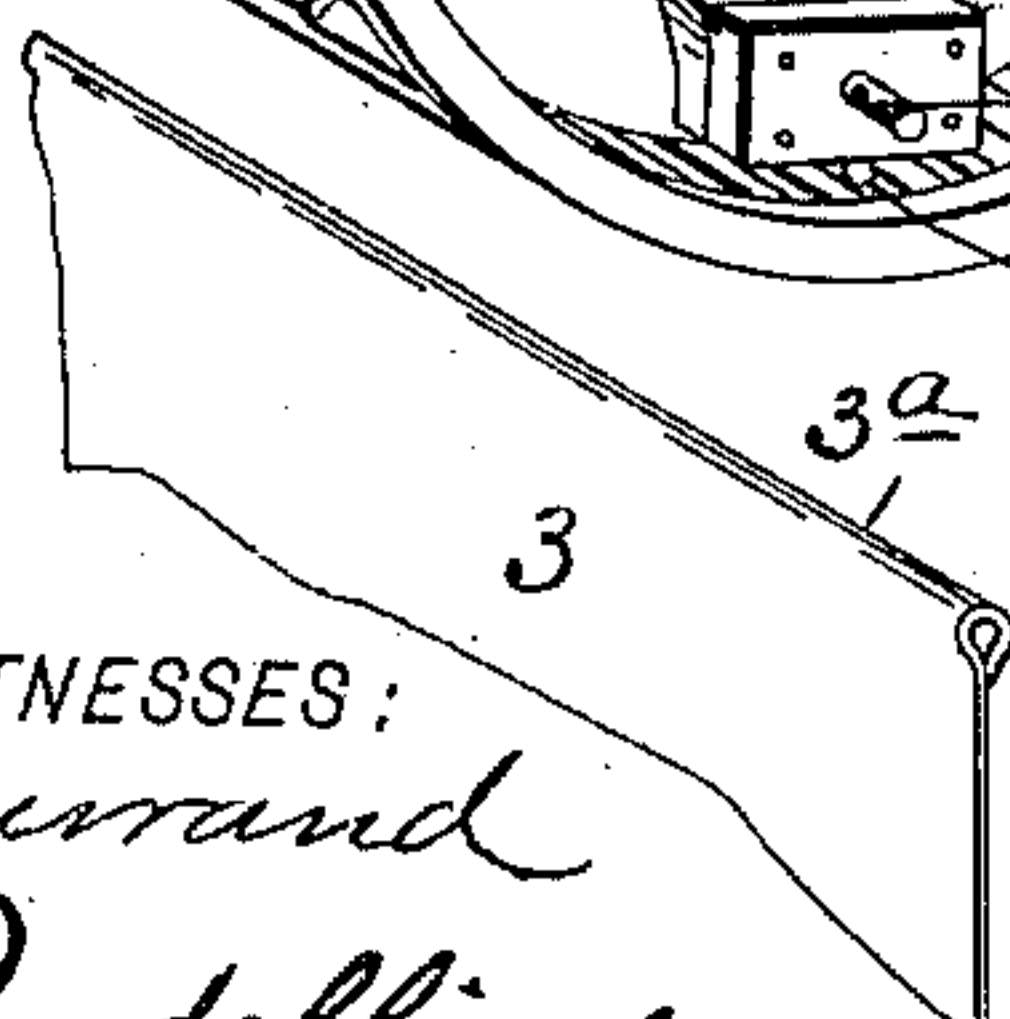


Fig. 8.

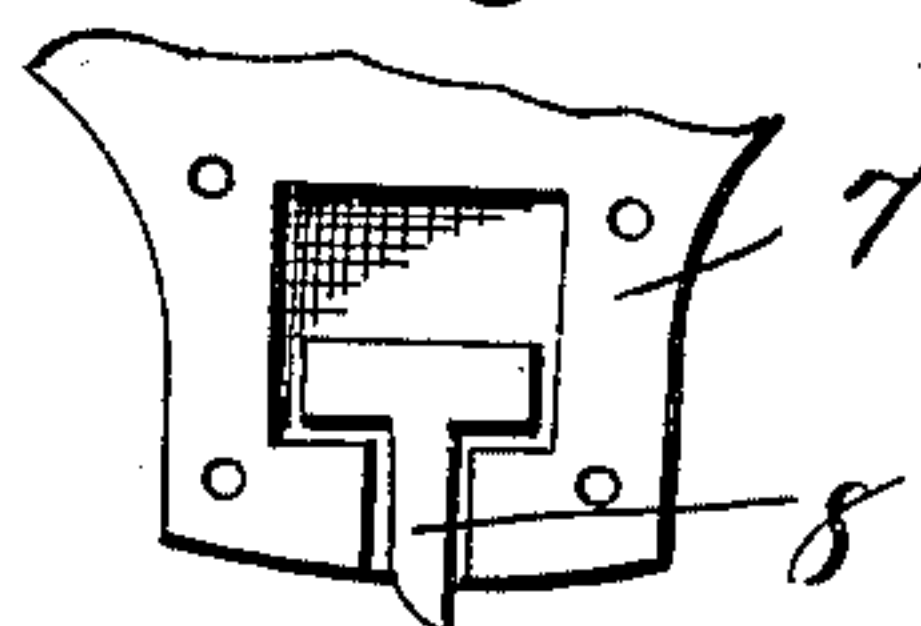
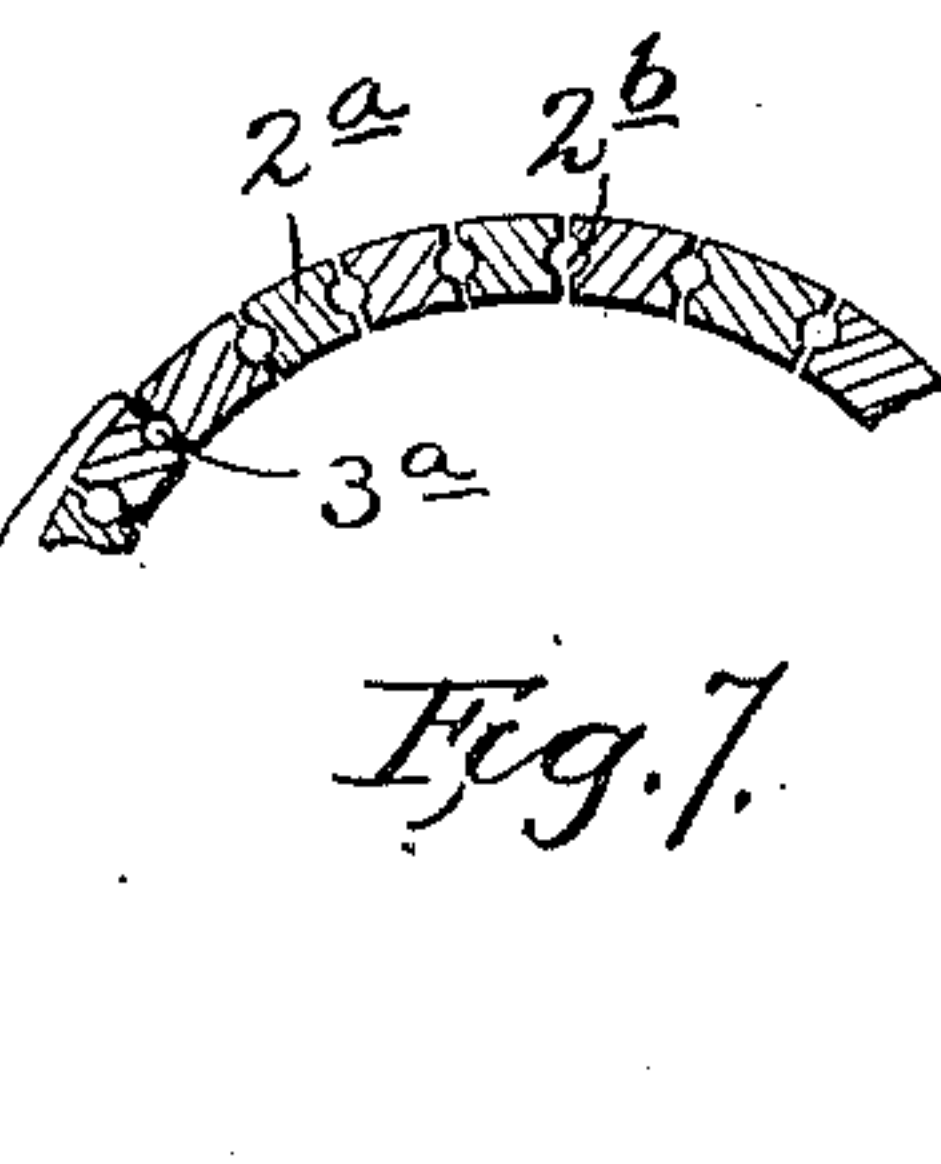


Fig. 9.



Fig. 7.



WITNESSES:

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CHRISTEN OLSEN, OF ISHPEMING, MICHIGAN.

APPARATUS FOR DISPLAYING SAMPLES OF WALL-PAPER.

SPECIFICATION forming part of Letters Patent No. 652,684, dated June 26, 1900.

Application filed November 2, 1899. Serial No. 735,614. (No model.)

To all whom it may concern:

Be it known that I, CHRISTEN OLSEN, a citizen of the United States, residing at Ishpeming, in the county of Marquette and State of Michigan, have invented new and useful Improvements in Apparatus for Displaying Samples of Wall-Paper, of which the following is a specification.

My invention relates to improvements in apparatus for displaying samples of wall-paper of different patterns.

It has for its objects to effect such display in a convenient and expeditious manner, to provide for the successive presentation of a number of patterns—as, for instance, for the side walls, for the border, and for the ceiling—of a harmonizing character or type, and to generally improve the usefulness of the machine or apparatus.

It consists of the sundry combinations of parts, including their construction and arrangement, substantially as hereinafter more fully disclosed, and specifically pointed out by the claims.

It will be understood that I do not limit myself to the details of construction as herein disclosed, as they may be changed or varied at will without departing from the spirit of my invention and the same yet remain intact and be protected.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a perspective view thereof. Fig. 2 is a side elevation with one side of the housing for the actuating device or mechanism for the display cylinder or drum removed. Fig. 3 is an enlarged perspective view showing more particularly the brake and the sample-impelling device, parts being broken away. Fig. 4 is a detached perspective view of the brake. Fig. 5 is a similar view of the sample-impelling device. Fig. 6 is a like view of the display cylinder or drum, and Fig. 7 is a cross-section thereof. Fig. 8 is a broken-away perspective view of the display-cylinder-actuating lever-pawl. Fig. 9 is a detail view of the indicator used in connection with the display-cylinder and the displaying of the samples or patterns of paper. Fig. 10 is a detail perspective of one end of a sample of wall-paper and showing the means for attaching it to the display-cylinder. Fig. 11

is a detail view of the side of the casing, showing the covering-plate for the handle or crank. Fig. 12 is a detail view of the means for adjusting the clamp. Fig. 13 is a side view and perspective of the ratchet end of the handle or crank. Fig. 14 is a detail view, partially in section, of the end of the axis and contiguous parts.

In carrying out my invention I provide an open-sided closure or casing 1, within which at its upper end is hung or arranged a display cylinder or drum 2, upon which are placed the samples of wall-paper of various patterns or designs, the same being unrolled therefrom and displayed below within said casing or closure. The cylinder or drum 2 has its periphery constituted of a series of peripheral slats or bars 2^a, with their opposing sides or surfaces formed or provided with facing longitudinal grooves 2^b, preferably semicylindric or concaved in cross-section, which receive substantially-cylindric formations or enlargements 3^a on the suspending ends or edges of the samples 3, the latter being inserted therein laterally. These enlargements 3^a are formed in any suitable way upon the samples—as, for instance, by inclosing a wire in their said ends or edges, the paper being passed or wrapped around said wire and its free edge attached to itself, the wire then being withdrawn. This provides for the connection or attachment of the samples to the cylinder or drum very quickly, as well as their ready removal. The shaft or axis of the display drum or cylinder is extended at one end beyond the side of the casing or closure 1 and made angular in cross-section, and upon this extension is adapted to be suitably secured the handle or crank 4 for its actuation. This handle or crank has a circular enlargement *a* and a pair of lugs *b*, between which a pawl *c* is pivoted, and the upper edge of the enlargement is apertured at *d* to permit the pawl to pass through and engage the ratchet-teeth on a disk *e*, fitted to the squared end of the axis of the cylinder. Between said handle or crank and preferably a plate or disk 5, secured to the casing, is slipped on the cylindric portion of the cylinder shaft or axis a pointer or indicator 6, preferably a tapered or pointed finger, which engages said axis frictionally and is adapted to be independently moved by the

hand or carried around by the shaft as the handle or crank is grasped and turned in actuating the cylinder or drum. The purpose of said indicator is to provide for readily
 5 locating or identifying a particular sample or pattern of paper by accordingly adjusting the said indicator at the time of examining said sample which it may be desired to subsequently refer to or from which the customer
 10 may elect, after going over all the samples or patterns on the drum or cylinder, to buy, as will be readily appreciated.

A centrally-pivoted counterbalanced lever
 15 7, fulcrumed upon the display-cylinder shaft, is disposed interiorly of the circle described by the slats of said cylinder and carries within an elongated chamber thereof a sliding pawl 8, adapted to engage said slats and intermittently rotate said cylinder or drum, as presently seen. This lever has pivoted to it a
 20 lever 9, in turn pivoted to the casing, and to this latter lever is connected by a link 10 a lever 11, also pivoted to the casing and provided on the outside of said casing with a
 25 handle or crank 11^a, adapted to work through a slot in the side of the housing for the aforesaid parts. In the lever 9 is a longitudinal slot 9^a, adapted to be engaged by a pin or projection 9^b, secured to the counterbalanced
 30 lever 7 and passing through an arcuate slot 9¹⁰ in the casing, adapted to provide for the guidance and limitation of the movement of certain parts, as will be apparent from the operation thereof.

In order to properly hold the free edges or ends of the samples of paper upon the drum, I employ what may be termed a "brake" or
 35 "clamp." This brake or clamp consists principally of, preferably, a wooden piece or clamp proper, 12, with its under side adapted to conform to an arc of the periphery of said cylinder or drum, and has connected to it two
 40 spring-metal arms 12^a, holding it initially in position, said arms being secured to a horizontal rod or bar 12^b, in turn secured at its ends to lateral bent bars 13, suitably secured to the sides of the casing. Upon the wooden
 45 piece or clamp proper, 12, is arranged a preferably-semi-elliptic or bow spring 12^c, with its ends presented toward and bearing upon said piece or clamp and its convexity centrally secured to the under side of a cross-bar 12^f,
 50 arranged above said clamp. A top cross-bar 12^g is arranged above the aforesaid bar 12^f and has passed through it set-screws 12^h, adapted to engage the bar 12^f and regulate the pressure to which it may be desired to subject the springs 12^c, acting upon the brake
 55 or clamp 12. To the ends of the bar 12^g are secured pendent arms or straps 12ⁱ, having set-screw and slotted connection 12^k 12^l with the lateral bent bars or brackets 13, secured to the casing.

For the purpose of insuring the instant
 65 dropping of the edges of the samples of paper as they pass from under and are released from the brake or clamp I provide what may be

called an "impelling device" or "detacher." This consists of a plate 14, preferably of an approximately-triangular construction, with
 70 its upper edge standing or bent at right angles thereto to enable it to readily engage the edge or end of the sample of paper and push it away from the roller. The plate 14 is secured to a bar or arm 14^a, suitably secured
 75 to a rod 14^b, supported and adapted to turn in the upper ends of lateral bars or brackets 14^c, fixed to the lateral bent bars or brackets 13. To a fixed bar 14^d of the rod 14^b is connected by a link or bar 14^e, connected to bar
 80 14^d, an arm 14^f, in turn connected to said link and fixed to the counterbalance-lever 7 at its upper end. It will therefore be seen that when the counterbalance-lever 7 is actuated by suitably manipulating the handle or
 85 crank 11^a, actuating or moving the display cylinder or drum, the impelling or detaching device will be operated, bringing it into engagement with the top or free edge of the successive samples as they escape from under
 90 the brake or clamp by reason of the movement of said display cylinder or drum, and thus overcome the tendency of the adherence of the samples of paper to each other. Thus the immediate dropping of the samples in un-
 95 rolling them from the display cylinder or drum is effected to readily and properly display or exhibit them below to the customer or one desiring to examine the same.

In practice the enlarged edges of the paper
 100 showing a sample of the wall and border are secured between slats of the display-cylinder, and alternating therewith are paper sheets showing a sample of the ceiling harmonizing with said sample of the wall and
 105 border. The said alternate sheets are reversely arranged with respect to each other—that is to say, the patterns or samples of the wall and border face the patterns or samples of the ceiling. From this it will be seen that
 110 a pattern of a wall and border and a ceiling can be seen at the same time through the glass front of the casing. To bring another sample into view, the handle 11^a is operated, which through its connections will operate
 115 the lever 7, causing the pawl 8 to engage with one of the slats of the drum and turn the latter a short interval. This will cause the free edge of the next sample on the drum to be disengaged from the brake, so that said sam-
 120 ple will drop and cover the sheet previously displayed, the immediate dropping of the sheets of paper being effected, as aforesaid.

Upon the inner sides of the casing or closure 1 I preferably arrange mirrors 1^a, serving to reflect the paper samples, and thus provide for more advantageously viewing said samples and getting a better effect in displaying the same.

Having thus fully described my invention,
 130 what I claim is—

1. In a display apparatus of the character described, a cylinder or drum, adapted to carry a number of samples, means for revolv-

ing said drum, and an arm having a plate attached thereto for throwing the successive samples down in position to be exhibited, substantially as described.

5 2. In a display apparatus of the character described, the combination of a casing, a drum mounted to revolve therein, and adapted to carry paper samples, a clamp or brake adapted to engage the paper, and the lateral bent
10 arms or brackets suitably connected to the casing or closure and having adjustable connection with said brake or clamp, substantially as set forth.

3. In a display apparatus of the character
15 described, the impelling or detaching device, comprising a rocking rod or bar carrying a plate adapted to engage the edge of the wall-paper or samples, a cylinder or drum, and mechanism for revolving the cylinder and ac-
20 tuating the detaching device, substantially as specified.

4. In a display apparatus of the character described, the combination of a rocking bar or rod, a plate having a bent engaging edge
25 portion and fixed to said rod or bar, a counterbalance-lever adapted to intermittently actuate the display cylinder or drum, means

to operate said counterbalance-lever, and a lever-and-link connection between said rod or bar and counterbalance-lever, substan- 30 tially as described.

5. In a display apparatus of the character described, the combination of a casing, the lateral bent bars or brackets secured to the casing, the pivoted rocking bar or rod, end 35 supports or bearings therefor, said supports being secured to said brackets, a plate having a bent edge portion, an arm to which said plate is attached, said arm being attached to said rocking rod or bar, the counterbalance- 40 lever adapted to intermittently actuate the display cylinder or drum, a lever or arm fitted to said counterbalance-lever, an arm attached to said rocking rod and a link or bar connected to said lever and to said arm fixed 45 to said rocking bar or rod, substantially as set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHRISTEN OLSEN.

Witnesses:

PATRICK J. MCGINTY,
WM. ANDREWS.