

C. E. RINGROSE.
 DISPLAY AND SERVING APPARATUS.
 APPLICATION FILED JUNE 28, 1911.

1,009,181.

Patented Nov. 21, 1911.

2 SHEETS-SHEET 1.

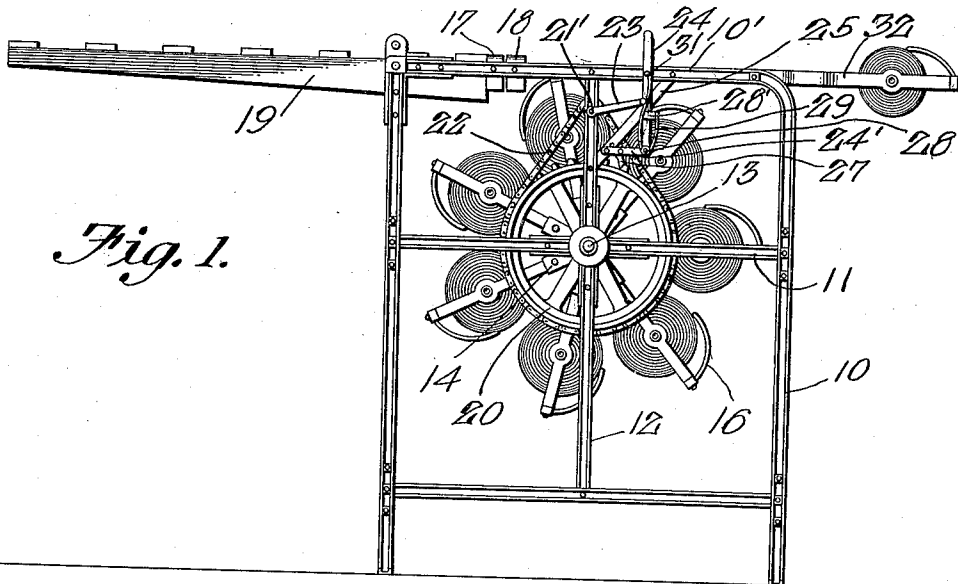


Fig. 1.

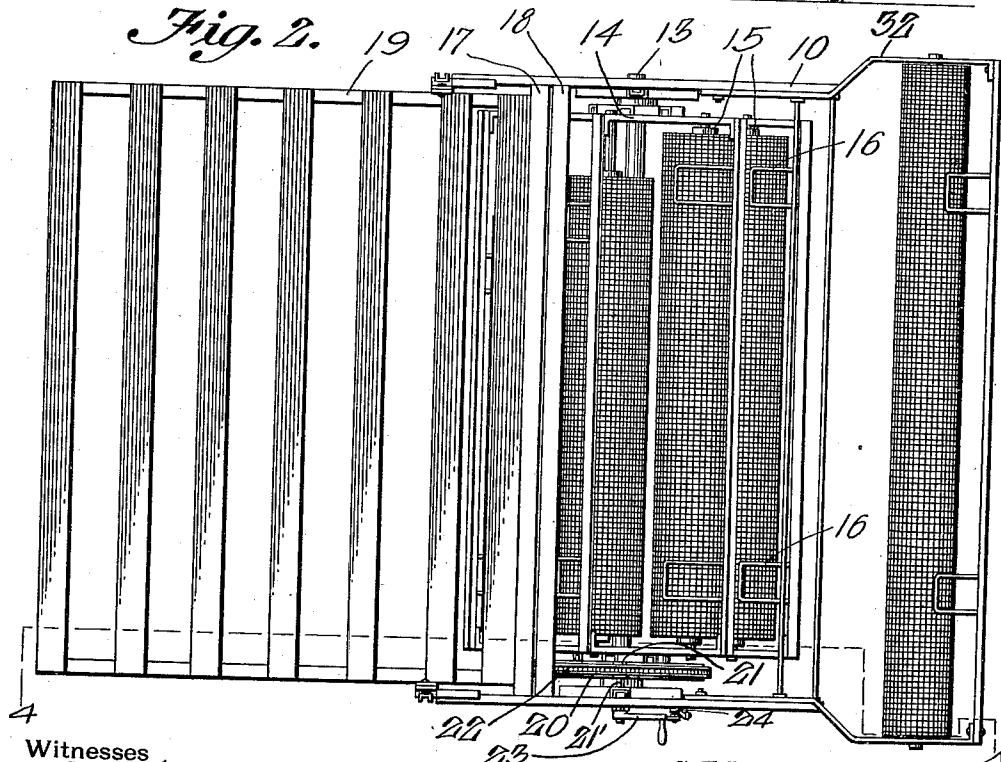


Fig. 2.

Witnesses

J. P. Lomein
L. H. Wilson

C. E. Ringrose Inventor

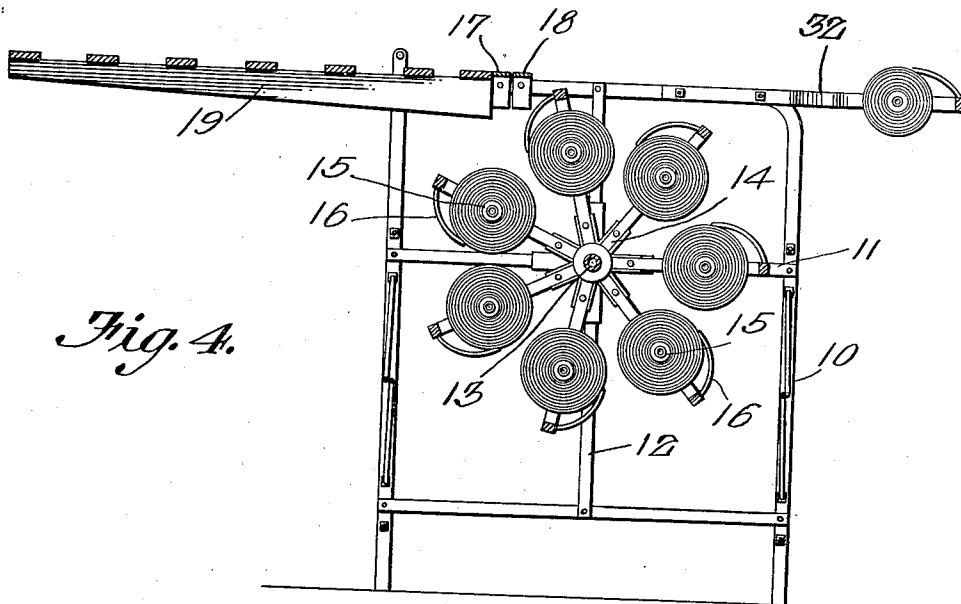
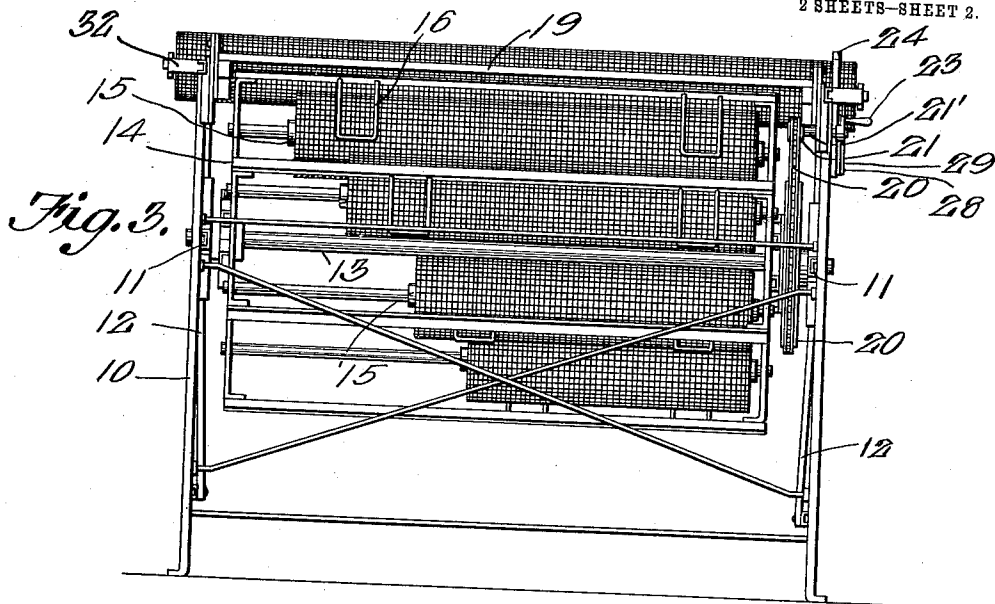
by *C. A. Snow & Co.*
 Attorneys

C. E. RINGROSE.
 DISPLAY AND SERVING APPARATUS.
 APPLICATION FILED JUNE 28, 1911.

1,009,181.

Patented Nov. 21, 1911.

2 SHEETS—SHEET 2.



Witnesses

J. P. Tomlin
D. H. Wilcox

C. E. Ringrose Inventor

by

C. A. Snow & Co.
 Attorneys

UNITED STATES PATENT OFFICE.

CHARLES E. RINGROSE, OF ALMA CENTER, WISCONSIN.

DISPLAY AND SERVING APPARATUS.

1,009,181.

Specification of Letters Patent.

Patented Nov. 21, 1911.

Application filed June 28, 1911. Serial No. 635,775.

To all whom it may concern:

Be it known that I, CHARLES E. RINGROSE, a citizen of the United States, residing at Alma Center, in the county of Jackson and State of Wisconsin, have invented a new and useful Display and Serving Apparatus, of which the following is a specification.

This invention relates to an improvement in combined display and serving apparatus.

10 The primary object of the present invention is to provide a display rack for wire cloth which will be of such construction as to hold a plurality of rolls.

15 A further object of the invention is to provide means for supporting any of the rolls at a point from which the same may be conveniently removed, the roll being locked in position during the removal of the wire cloth.

20 The present invention contemplates a wire cloth rack which will support wire of different degrees of thickness, the rolls thus varying in weight.

25 The rolls are supported by a rotary rack member, the normal tendency of said rack member being to hold the lighter rolls at the top, that is adjacent the point of distribution, therefore one of the objects of the present invention is to permanently lock the rotary frame in order that a light or heavy roll may be held adjacent the point from which the cloth is removed.

30 In the drawings: Figure 1 is a side elevation. Fig. 2 is a top plan view. Fig. 3 is a front elevation; and, Fig. 4 is a section on the line 4—4 of Fig. 2.

35 The main support for the rolls consists of a frame 10, the ends of which are braced by the intersecting bars 11 and 12 which combine to support a shaft 13 on which is mounted a frame 14 which rotatably supports a plurality of fabric holding rolls 15, the support for the rolls extending beyond the same and being provided with tension devices 16 which hold the wire against accidental displacement.

40 Arranged adjacent one end of the stand or frame 10 is a plurality of spaced sheave guides 17 and 18 which assists in accurately severing the fabric as the same is removed from the rolls. Pivotally supported adjacent said guides 17 and 18 is a shelf or leaf 19 over which the fabric is passed as it is removed from the roll. It will thus be seen
55 that it will be necessary to hold the roll from which the fabric is being removed at a

point adjacent the guides 17 and 18. As before stated the roll supporting frame is mounted on the shaft 13. Arranged on said shaft is a large sprocket 20. A second and smaller sprocket is arranged above the first mentioned sprocket and supported by the vertically extending portion 12 of the frame, a chain 22 connecting the sprockets 20 and 21. The sprocket 21 is mounted on a shaft 21' and arranged on the end portion of said shaft is a crank 23. The sprocket 21 is provided with a sufficient number of teeth which when said sprocket is completely rotated by means of the lever 23 will move the rotary support through the medium of the sprocket 20 a sufficient distance to move one of the wire rolls from the point at which the cloth is removed and presents a second wire roll, thus each complete rotation of the sprocket 21 presents a different wire roll at a point adjacent the guides 17 and 18.

In order that the rack may be held against movement a ratchet mechanism is provided. This ratchet mechanism consists of a bell crank 24 which is pivotally supported adjacent one end of a diagonally disposed support 25 which extends between the horizontal beam 10' of the frame and the vertical beam, the crank 24 being so positioned as to fall within the path of the crank 23 which rotates the small sprocket 21. Secured to the short arm 24' of the bell crank 24 is a dog 27 which falls between the teeth of the sprocket 20, thus preventing the rotation of said sprocket. Secured on the long arm of the lever 24 at a point adjacent its lower end is a projection 28 around which is passed a flat spring 29, one end of said spring being connected to its approximate center by a pin 28', its other end being secured to the pin 31 adjacent the handle end of the bell crank. This spring is arranged in the path of the crank 23 and is adapted to hold the same against movement at a point during its rotation, the point at which said lever or crank is held being so timed with the movement of the large sprocket 20 that the crank is held while a roll is adjacent the guides 17 and 18. As this crank contacts with the spring 28, the bell crank 24 is moved a sufficient distance on its pivot and held in such position that the dog 27 will prevent the rotation of the sprocket 20, it will be noted by this construction that the rotary support is held during each com-

plete revolution of the small sprocket 21 and as before stated the holding of the rotary frame is so timed as to present one of the cloth rolls at a point adjacent the cutting guides 17 and 18. It will be noted that when it is desired to again rotate the roll holding member to present a different roll, the crank 23 may be moved against the tension of the spring 27 and freely rotated. It will be noted however that as soon as the crank 23 is brought out of contact with the spring 27 the bell cranks 24 will allow the dogs 27 to feather as the large sprocket 20 is rotated.

15 While the rotary frame is adapted to support various qualities of wire fabric a wider grade may be supported by the supplemental frame 32 which is secured adjacent the end of the frame remote from the hinged leaf. This frame is adapted to support an extremely wide fabric, the construction and positioning of the frame being such as to permit the insertion of a roll longer than those supported by the rotating support.

25 The many advantages of a device of this character will be clearly apparent as it will be noted that the various rolls of wire may be readily inspected, the construction being such that each roll may be held at a convenient point for removal regardless of its weight. It will also be noted that by the peculiar construction of the frame the entire apparatus will take up but little floor space, the hanging shelf being folded on the frame when not in use.

35 In removing the wire from the roll the same is passed over the guides 17 and 18 resting on said guides and the shelf 19, the guides directing the movement of a knife or shears by means of which the fabric is severed, the shelf 19 effectually holding the fabric while the same is severed. It will also be noted that the fabric may be displayed upon this shelf and rewound on the drum by reversing the rotation of the roll thus

the various fabrics may be presented to the purchaser in a convenient manner.

What is claimed is:—

1. A roll supporting rack comprising a frame, a roll holding frame supported for rotary movement by said first frame, a crank for imparting rotary movement to said second frame, a pivotally supported crank arranged in the path of travel of said crank, said second crank restricting the movement of the first mentioned crank.

2. A roll supporting rack, comprising a frame, a roll supporting frame rotatably supported by the first mentioned frame, a sprocket arranged to rotate the second mentioned frame, a second sprocket mounted for rotation on the first mentioned frame, an operative connection between said sprockets, a crank pivotally supported adjacent the first mentioned sprocket, a dog supported by said crank, said first mentioned crank during each complete rotation bringing said dog into locked relation with the first mentioned sprocket.

3. A roll supporting rack comprising a frame, a rotatably supported roll holding frame, a sprocket supported by each frame, an operative connection between said sprockets, a lever pivotally supported adjacent the sprocket mounted on the first mentioned frame, a crank arranged to impart rotation to said sprocket, a dog pivotally supported by said lever, a spring supported by said lever, said crank and said spring being arranged to contact with each complete rotation of the first mentioned sprocket to force said dog into locked relation with the first mentioned sprocket.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES E. RINGROSE.

Witnesses:

H. S. CADBY,
R. F. FINK.