

No. 848,562.

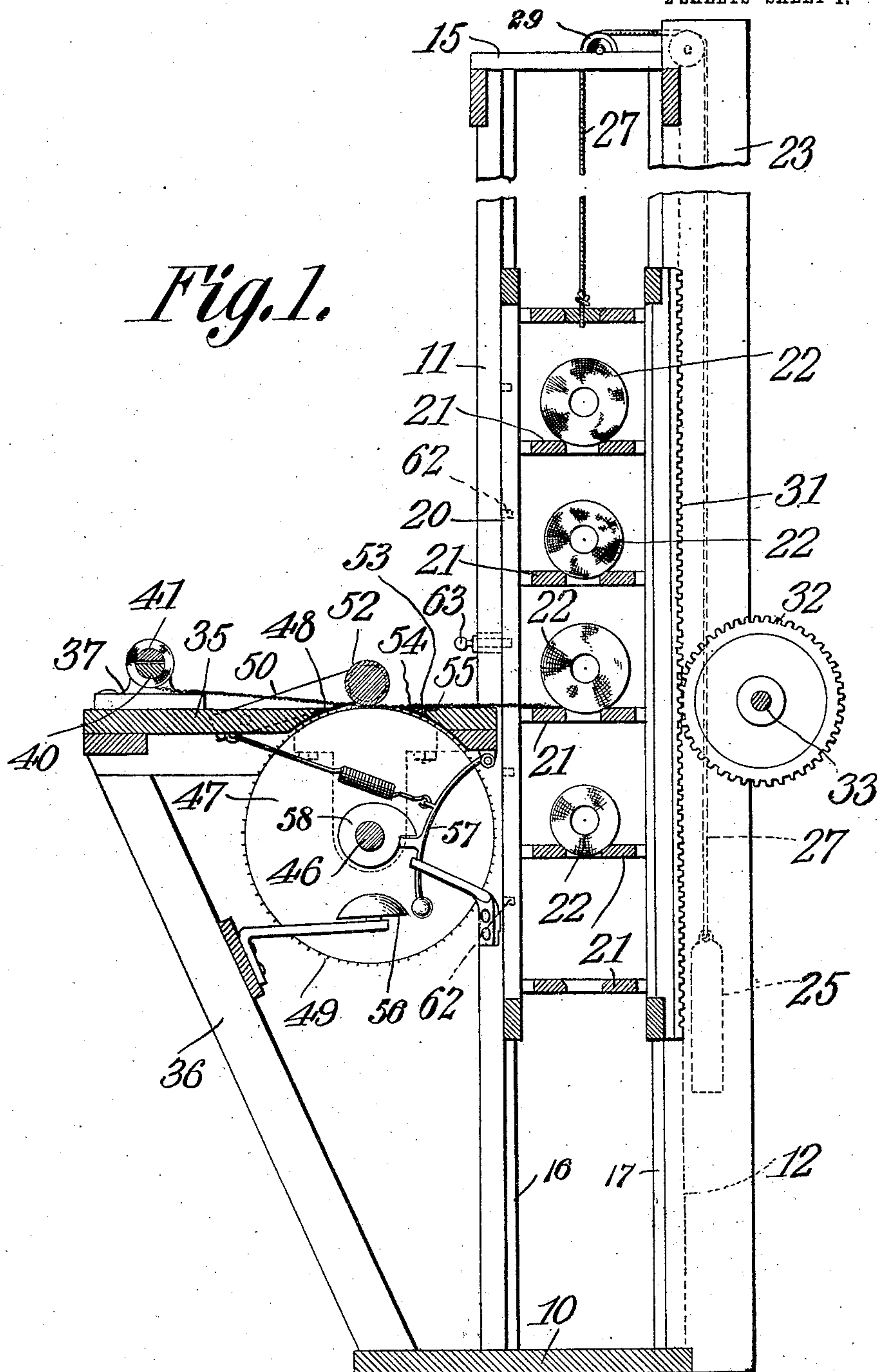
PATENTED MAR. 26, 1907.

W. W. MARCH.

WIRE CLOTH SUPPORTING AND MEASURING APPARATUS.

APPLICATION FILED JULY 13, 1906.

2 SHEETS—SHEET 1.



WITNESSES:

E. J. Stewart

E. H. Woodward

William W. March,

INVENTOR

By

C. A. Snow & Co.

ATTORNEYS

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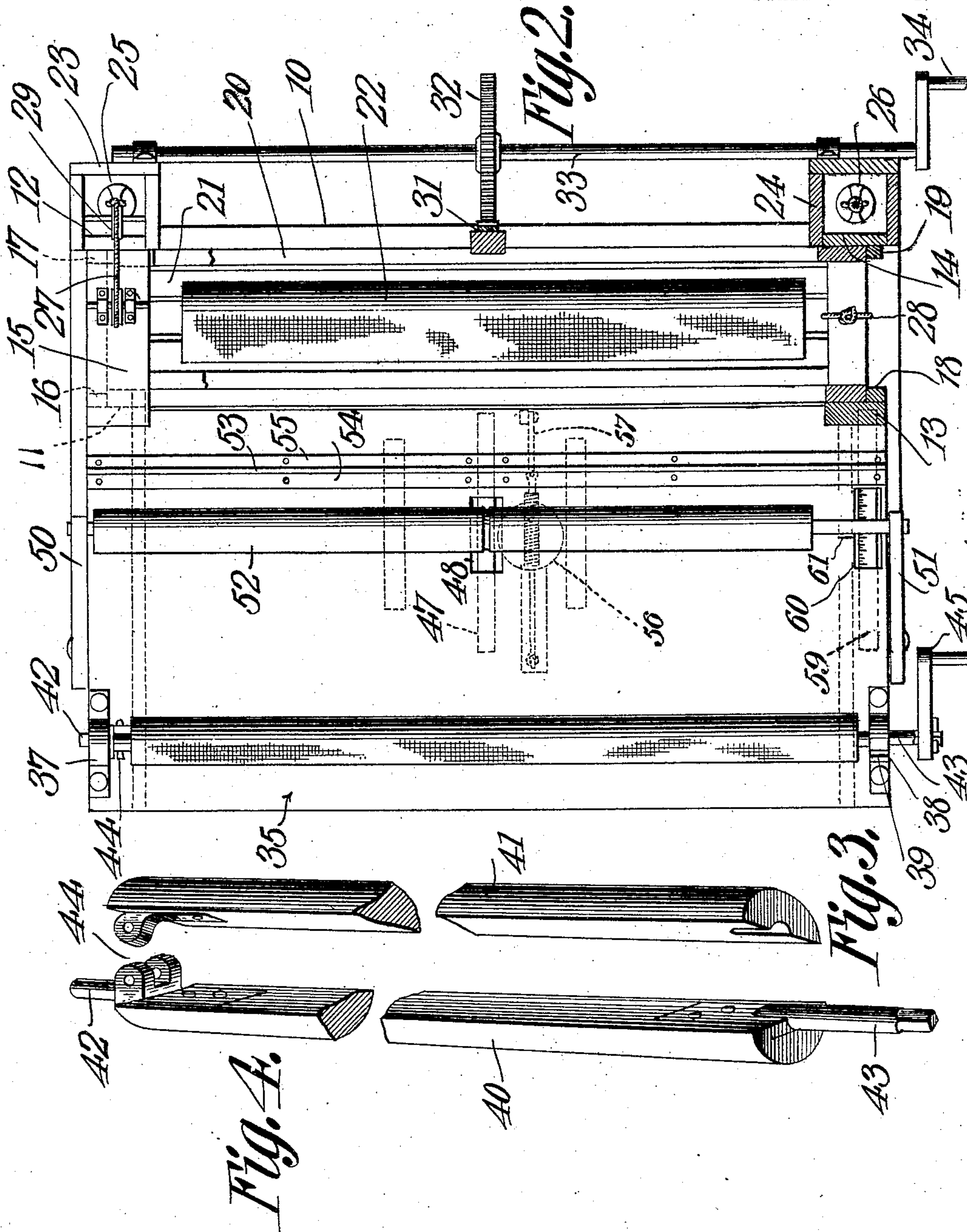
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UNITED STATES PATENT OFFICE.

WILLIAM WELLS MARCH, OF NOCONA, TEXAS.

WIRE-CLOTH SUPPORTING AND MEASURING APPARATUS.

No. 848,562.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed July 13, 1906. Serial No. 326,146.

To all whom it may concern:

Be it known that I, WILLIAM WELLS MARCH, a citizen of the United States, residing at Nocona, in the county of Montague and State of Texas, have invented a new and useful Wire-Cloth Supporting and Measuring Apparatus, of which the following is a specification.

This invention relates to apparatus for supporting rolls of wire-cloth in convenient position for measuring the same and rerolling the measured portion, and has for its object to improve the construction and increase the efficiency and utility of devices of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the invention consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation.

In the drawings, Figure 1 is a sectional elevation. Fig. 2 is a top plan view of the apparatus with parts in horizontal section. Figs. 3 and 4 are perspective views, enlarged, of the two parts of the winding-roller detached and separated.

In the improved apparatus is comprised a vertical frame having cloth measuring, cutting, and rewinding devices associated therewith and a supporting means for a plurality of the rolls of wire-cloth and movably disposed in the frame, so that any required roll may be disposed in position for the removal of any required quantity therefrom without disturbing the remaining rolls.

The vertical frame consists of an oblong base portion 10, from which four standards 11, 12, 13, and 14 extend and coupled at their upper ends by headers 15. The standards are provided, respectively, with guide-strips 16, 17, 18, and 19, and slidably disposed within the frame and engaging the guide-strips is a rack-frame, represented as whole at 20 and provided with spaced bars 21, adapted to support the rolls of wire-cloth, (represented at 22.) Extending from the standards 12 and 14 are pockets 23 24, in which balance-

weights are designed to operate and represented at 25 26, the weights being connected to the rack-frame 20 by cords 27 28, running over guide-sheaves 29, as shown.

Attached to the rack-frame 20 is a gear-rack 31, with which a gear 32 on a shaft 33 engages, the shaft journaled upon the pocket members 23 24 or other suitable portion of the frame and operative by a crank 34. By this means the rack-frame may be operated within the supporting-frame to any required extent.

Extending laterally from the supporting-frame intermediate its length is a table or platform 35, suitably braced, as at 36. Mounted upon the table 35 at opposite ends are bearings 37 38, the latter open at one side, as at 39. The rewinding-roller is mounted for rotation in these bearings and is formed in two parts 40 41, the part 40 having journals 42 43 for engaging the bearings 37 38 and the part 41 hinged at one end at 44 to the part 40, the journal 43 having a square terminal to receive the operating-crank 45. The end of the cloth to be measured and rewound is disposed between the parts 40 41, and when the parts are closed and rotated the cloth is wound thereon, as hereafter explained.

Mounted upon a shaft 46 beneath the table 35 is an indicator-wheel 47 of some predetermined size—as, for instance, one yard in circumference—and projecting through an aperture 48 in the table and provided with peripheral spurs or points 49 to engage the cloth as it is drawn thereover. Mounted upon the shaft 46 near one edge of the table 35 is another indicator-wheel 59, graduated in inches and projecting through an aperture 60 in the table, the latter having a denoting-line 61 coacting with the graduations on the wheel. The wheel 59 is thus in position to denote the amount of cloth removed from the roll and can be “read” through the aperture 60, as will be obvious.

Swinging from the table 35 at opposite ends are radius-bars 50 51, between whose free ends a roller 52 is journaled, the roller adapted to rest upon the cloth as it passes over the table and insure its smooth and uniform movement and also to serve as a gravity tension device to hold the cloth in contact with the wheel 47. A relatively narrow cleft 53 is formed in the table close to the roller 52 to form a guide for the severing-

knife or other implement employed for severing the cloth after it is measured. The cleft is preferably provided with guard-strips 54 55.

5 The wheels 47 and 59 are of some predetermined size—for instance, one yard in circumference—and will thus be rotated once by each yard of cloth which is drawn over them, and a suitable signal means—such as a gong 56, spring-controlled hammer 57, and
10 operating-cam 58—will be employed to notify the operator as each yard is measured.

The rack 20 is designed to hold a plurality of rolls of wire-cloth of different widths, and when any particular width is required the
15 frame 20 is adjusted by rotating the shaft 33 by its crank 34 to bring the required roll in position opposite the table and in position to be measured and rewound upon the drum 40 41.

20 The roll-supporting frame 20 is provided with spaced sockets, one for each pair of the supporting-bars 21 and indicated at 62, and the frame member 11 is provided with a spring-actuated bolt 63, adapted to engage the
25 sockets one at a time, and thus lock the rack-frame at any desired point to hold the roll of cloth from which the desired amount is to be removed in stationary position. The inner or operative end of the bolt 63 will preferably
30 be inclined at one side, so that the frame 20 may be moved freely in one direction, but

will require the bolt to be manually released before it can be moved in the opposite direction.

After the requisite amount of cloth has
35 been measured, severed, and wound upon the drum it is tied loosely thereon, the divided winding-roll removed from its bearings, and the cloth removed therefrom by withdrawing it from the roller. 40

The device is simple in construction, can be inexpensively manufactured, and will be very convenient for the use of retail dealers in wire-cloth and similar material.

Having thus described the invention, what
45 is claimed is—

In a device of the class described, a supporting-frame, a table extending laterally of said frame, a rewinding-drum upon said table, a rack slidable in said frame and di-
50 vided into a plurality of compartments for rolls of the material to be measured, and means for operating said roll-supporting rack to bring any required roll into position relative to said body. 55

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

WILLIAM WELLS MARCH.

Witnesses:

C. E. GORDON,
L. H. DOWD.