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J. A. PRATHER & H. M. KEIM.
WIRE CLOTH HOLDER AND MEASURING DEVICE.

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Fig. I.

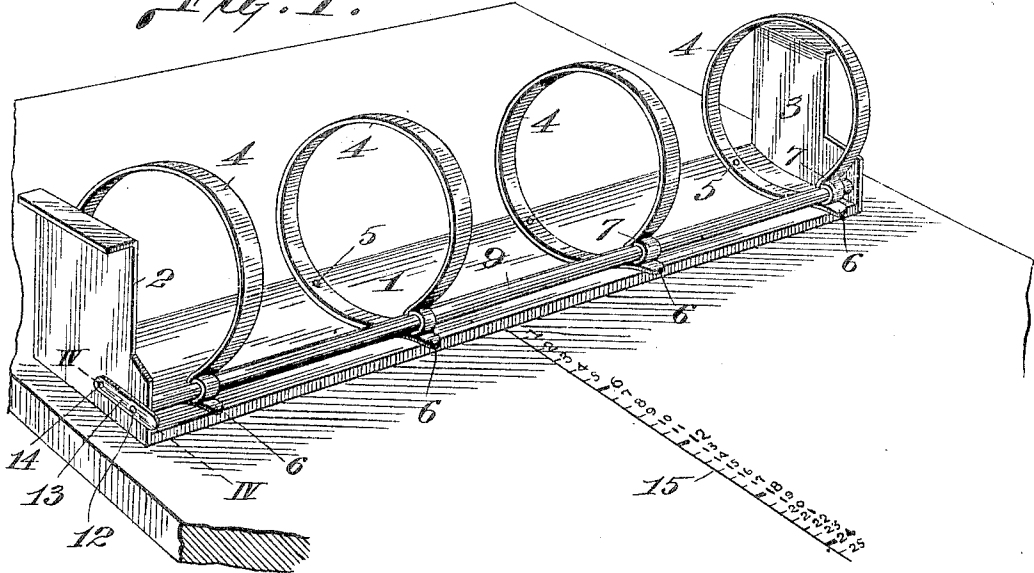


Fig. II.

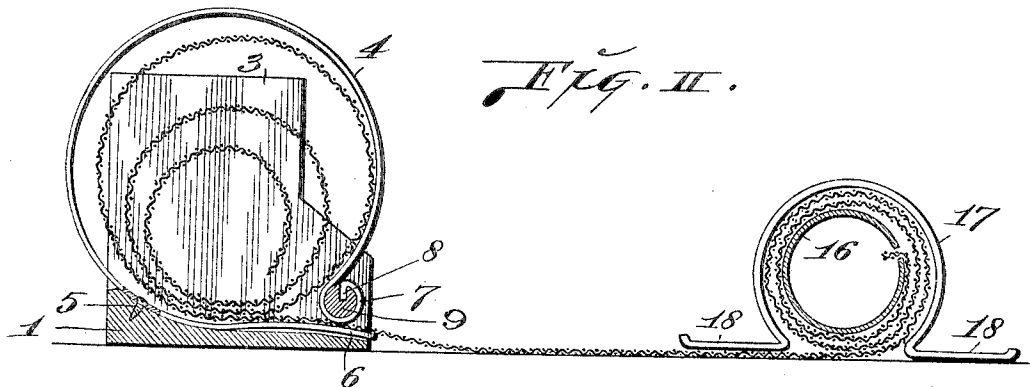
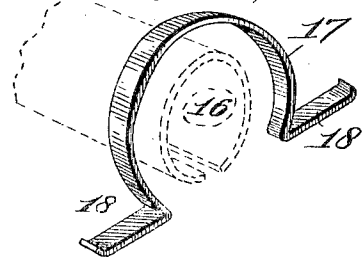
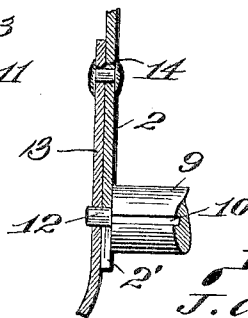
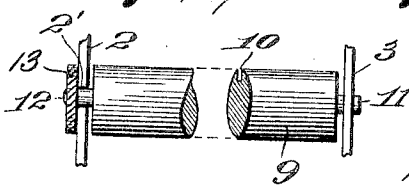


Fig. III.

Fig. IV.

Fig. V.



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UNITED STATES PATENT OFFICE

JOSEPH A. PRATHER AND HENRY M. KEIM, OF CARTHAGE, MISSOURI.

WIRE-CLOTH HOLDER AND MEASURING DEVICE.

No. 804,501.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, JOSEPH A. PRATHER and HENRY M. KEIM, citizens of the United States, residing in Carthage, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Wire-Cloth Holders and Measuring Devices, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

Our invention relates to devices for holding wire-cloth in rolls, measuring it as it is withdrawn from the roll, and thereafter holding the withdrawn portion while it is being severed from the roll and being tied into a bundle.

Figure I is a perspective view of our wire-cloth holder. Fig. II is an enlarged vertical transverse section taken through our wire-cloth holder and the means for holding the withdrawn portion of the wire-cloth while it is being cut and tied. Fig. III is a front elevation of fragments of the wire-cloth holder base-arms and the rod fitted to the ends of the wire-cloth-encircling straps, said rod being shown partly cut out and the catch being shown in section. Fig. IV is an enlarged horizontal section taken on line IV IV, Fig. I. Fig. V is a perspective view of the spring-clamp by which the wire-cloth is held while being cut and tied, with the slotted cylinder on which the wire-cloth is wound shown in dotted lines.

1 designates the base of our wire-cloth holder, which is provided with upright arms 2 and 3. This base is designed to be placed upon a counter or table while the holder is in use.

4 designates a series of straps that are secured intermediate of their ends to the base 1 by screws 5 or other suitable means of fastening. These straps are of curved form and preferably of spring metal, and each has a forwardly-extending tongue 6, that projects from the point of attachment of the strap to the base 1, immediately above said base and sufficiently elevated therefrom to permit spring action therein. Each of the straps terminates at one end in a loop 7, provided with a tongue 8, and seated within the loops of the straps is a rod 9, that is provided with a longitudinal groove 10, which receives the tongues of the strap-loops, so as to confine the rod therein. In the ends of the rod 9 are pins 11 and 12. The pin 11 is introduced

through an aperture in the base-end arm 3, while the pin 12 is adapted to be seated in a horizontal notch 2' in the forward edge of the base-end arm 2, as seen in Figs. III and IV.

13 is a spring-catch fixed at 14 to the base-end arm 2. This spring-catch extends in alinement with the notch 2', and it is provided with an aperture that is adapted to receive the pin 12 of the rod 9, whereby said rod is detachably held in position between the base-end arms. (See Figs. I, III, and IV.)

When the roll of wire-cloth is to be placed in the holder, the rod 9 is disengaged from the base-end arms by springing the catch 13 outwardly to free the pin 12 of the rod, so that it may be withdrawn from the notch 2' in the end arm 2. The rod is then moved longitudinally to withdraw the pin 11 from the base-end arm 3. The rod now being freed, it may be raised to open up the curved straps 4 and permit the introduction of the roll of wire-cloth into the holder. After the roll has been introduced the rod 9 is again lowered and placed into engagement with the base-end arms, as before. In placing the roll of wire-cloth in the holder it is so positioned that the outer end of the cloth will project beneath the rod 9 and over the spring-tongues 6 of the straps 4. As the cloth is drawn out of the holder by grasping the projecting end of cloth it rides upon the spring-tongues, and these serve as tension members by pressing the cloth upwardly toward the loops of the straps in order that the cloth may not be withdrawn too rapidly. For the purpose of measuring the cloth as it is withdrawn we place upon the counter or table directly in front of the wire-cloth holder a tape-measure 15, that extends from the base of the holder upon the table or counter. This tape-measure may be of any desired length.

16 designates a longitudinally-slotted cylinder, into the slot of which the end of the wire-cloth is inserted when it is withdrawn from the roll-holder. The cylinder is then rolled upon the table to wrap the wire-cloth thereon and the rolling is continued upon the wire-cloth after the cylinder has been encircled by the cloth, this action being continued until the quantity of cloth to be removed from the roll in the holder has been wrapped onto the cylinder.

17 is a spring-clamp having a central semi-circular portion and outwardly-extending

arms 18. This clamp is applied to the roll of wire-cloth wound onto the cylinder 16 to hold the roll thereon while the wire-cloth is being cut. After the wire-cloth has been cut the roll
5 around the cylinder 16 is tied into a bundle. The spring-clamp is then removed from the tied bundle and the cylinder 16 is withdrawn from the roll by slipping it endwise therefrom, thereby leaving the bundle in compact
10 condition and ready to be carried away.

We claim as our invention—

1. In a wire-cloth holder, the combination of a base having end arms, a series of straps secured to said base, and a rod fitted to ends
15 of said straps and arranged for detachable engagement with said base-end arms, substantially as set forth.

2. In a wire-cloth holder, the combination of a base having end arms, a series of straps
20 secured intermediate of their ends to said base, means fitted to ends of said straps

whereby they may be detachably connected to said end arms; said straps terminating at their other ends in spring-tongues elevated from said base, substantially as set forth. 25

3. In a wire-cloth holder, the combination of a base having end arms, a series of straps secured to said base, a rod fitted to ends of said straps, a pin in one end of said rod arranged for engagement with one of said end
30 arms, a pin in the other end of said rod arranged to enter the second end arm, and a spring-catch secured to the last-named arm and arranged to receive the engagement of said last-named pin, substantially as set
35 forth.

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In presence of—

W. A. WILLIAMS,
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