

June 30, 1936.

J. ANTONE

2,045,820

PAPER TOWEL CABINET

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2 Sheets-Sheet 1

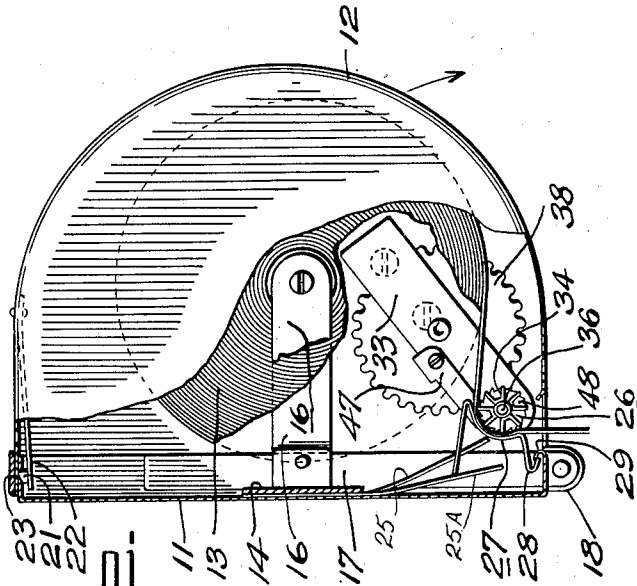


FIG. 2-

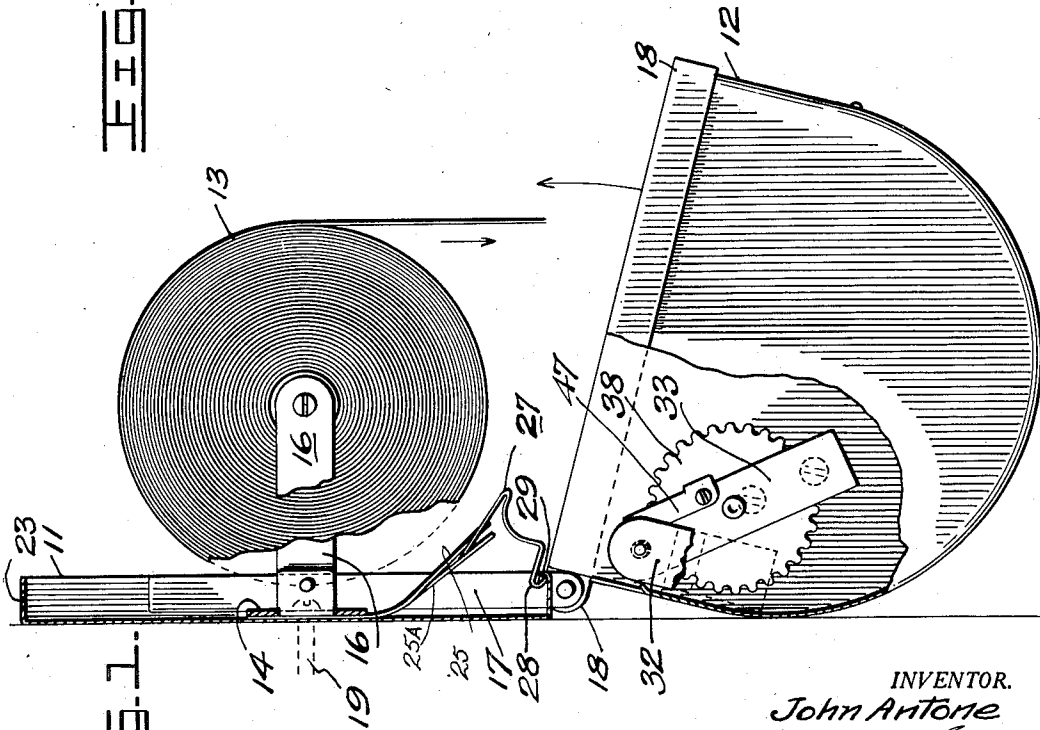


FIG. 1-

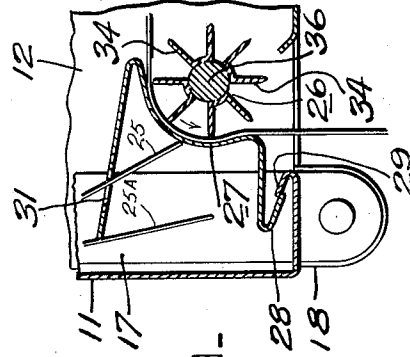


FIG. 3-

INVENTOR.
John Antone
BY *Robert H. Eckhart*
ATTORNEY.

June 30, 1936.

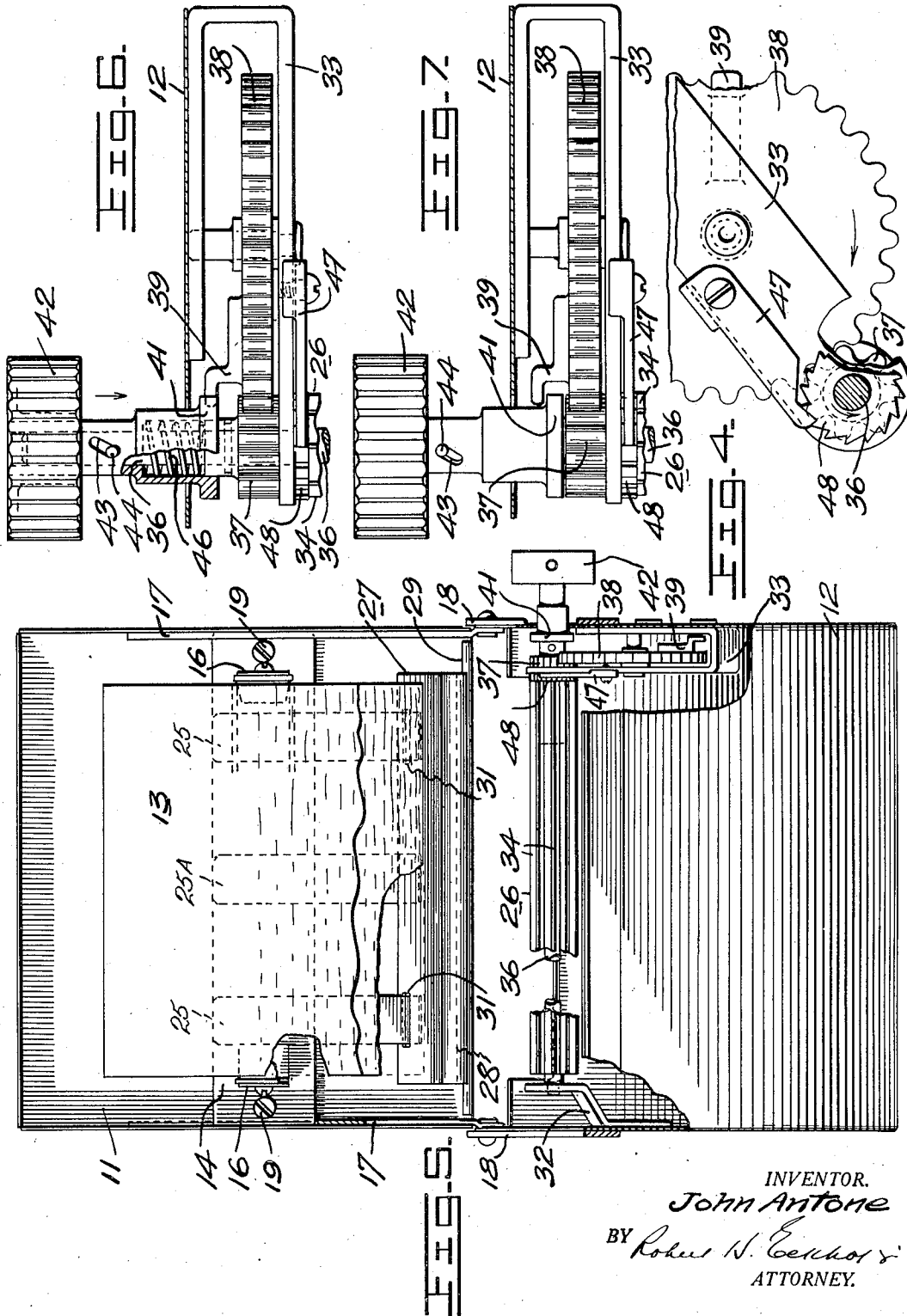
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2 Sheets-Sheet 2



INVENTOR.
JOHN ANTONE
BY Robert N. Gerhart &
ATTORNEY.

UNITED STATES PATENT OFFICE

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PAPER TOWEL CABINET

John Antone, San Francisco, Calif.

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4 Claims. (Cl. 242—55.5)

This invention relates to a paper towel cabinet and, more particularly, to a cabinet for dispensing uniform lengths of paper towel from a continuous and unsevered roll thereof.

In my prior Patent 1,084,598 I have disclosed a cabinet for dispensing towel from a roll which includes sheets readily separated therefrom along preformed perforations or cuts. The cabinet of the present invention enables towels to be cut by the user directly from a continuous roll, thereby making the towel cheaper since the manufacturer need not cut or serrate it. The cut towels are of a uniform length and this is so irrespective of the size of the roll.

The mechanism of the towel cabinet of the present invention is relatively simple and of a character lending itself readily to simple manufacturing methods. Since the cabinets are usually sold very cheaply, if not given away, this is an important item, one directly affecting the sale of towels.

It is an object of the invention to provide a towel cabinet for dispensing a paper towel from a continuous roll thereof.

Another object of my invention is to provide a towel cabinet for paper towel dispensing to which simple manufacturing operations are applicable.

The invention possesses other advantageous features and objects, some of which, with the foregoing, will appear hereinafter wherein I have disclosed the present preferred cabinet of my invention.

In the drawings:

Figure 1 is a side elevation partly in section of the cabinet when open.

Figure 2 is a side elevation partly cut away to show the assembled cabinet.

Figure 3 is a fragmentary section of the roll and arcuate backing.

Figure 4 is a view showing the one direction release mechanism for the towel cabinet.

Figure 5 is a plan view of the cabinet in the position shown in Figure 1, the cabinet being broken away.

Figures 6 and 7 are respectively a partial section and an elevation of the measuring, locking and release mechanism.

The cabinet comprises a back portion 11 and a hood portion 12. A roll of paper 13 is mounted on a frame 14 which includes uprights 16 carrying the paper roll. The frame 14 is positioned on portion 11 by slipping between the back portion 11 and metal arms 17, the arms being welded to the back. The hood 12 includes a metal frame 18 hinged on the arms 17 so the head can be

moved to permit insertion of a roll of paper. Wood screws 19 extend through the frame 14 and back 11 to position the frame and back on a support. The hood is held closed by a projection 21 on a spring strip 22 engaging an aperture 23 in the back 11. This is released by pressing down on the strip which is secured to the hood. An aperture over the strip or to one side permits this being done readily with a simple bent wire key.

Paper from roll 13 is fed between a roll member 26 and an arcuate backing member 27. A plurality of leaf springs 25 and 25A support the backing member which is hinged by lip 28 thereon engaging a lip 29 on the cabinet. In the form shown, three leaf springs are shown, the outer two springs 25 passing through apertures 31 in member 27 to lift the arcuate portion thereof while the center spring 25A urges the backing member about the lip 29.

The paper sheet from the roll passes between the member 26 and the spring pressed backing member 27, the paper sliding over the member 27 and rotating the member 26 in support arm 32 and U-arm 33 in which it is journaled. To facilitate dispensing and simplify construction, member 26 is formed of a plurality of U-blade sections 34 welded to a rod or shaft 36. The outer ends of the U are formed as knives, engaging the paper as it passes so that the cutter rotates. I therefore make use of the cutter as a measuring means, mounting gear 37 on the rod 36. A second gear 38 is carried in U-arm 33 and is meshed with gear 37. Gear 38 carries an arm 39 which engages a collar 41 on handle 42; this engagement occurs once in each rotation of gear 38. The relation of the gears is such that about fourteen inches of towel are measured off.

When the arm 39 engages the collar, a slight side pull results in cutting of the towel on one of the knives. Additional towel is then secured by unblocking the gear 38. This is effected by rotating handle 42, angular slot 43 therein cooperating with pin 44 in shaft 36 to simultaneously move the handle longitudinally on the shaft against spring 46 in handle 42 to release the collar-arm engagement.

Rotation of handle 42 is also effective to feed out positively additional towel, any danger of the towel end becoming lost in the cabinet being obviated. To permit rotation of the handle and cutter bar in but a single direction, a dog 47 is mounted on U-arm 33 to cooperate with ratchet 48 on shaft 36.

I claim:

1. In a towel dispensing cabinet in which is

placed a roll of paper to be dispensed and severed as individual towels of a predetermined length, a sheet member having an arcuate face over which said paper passes from said roll, a multi-blade cutter extended across said arcuate face and having at any instant a plurality of blades engaging paper passing over said face, and means urging said cutter and said sheet member together.

2. In a towel dispensing cabinet in which is placed a roll of paper to be dispensed and severed as individual towels of a predetermined length, a sheet member having an arcuate face over which said paper passes from said roll, a multi-blade cutter extended across said arcuate face and having at any instant a plurality of blades engaging paper passing over said face, means limiting rotational movement of said cutter to a predetermined number during each dispensing operation, and means urging said cutter and said sheet member together.

3. In a towel dispensing cabinet in which is

placed a roll of paper to be dispensed and severed as individual towels of a predetermined length, a sheet member having an arcuate face over which said paper passes from said roll, a multi-blade cutter extended across said arcuate face and having at any instant a plurality of blades engaging paper passing over said face, said cutter including a rod and a plurality of U-section blades secured to said rod at the base thereof, and means urging said cutter and said sheet member together.

4. In a towel dispensing cabinet in which is placed a roll of paper to be dispensed and severed as individual towels of a predetermined length, means providing an arcuate face over which said paper passes from said roll, a multi-blade cutter extended across said arcuate face and having at any instant a plurality of blades engaging paper passing over said face, and means urging said cutter and said face together.

JOHN ANTONE.