April 7, 1925. 1,532,837

H. SEIDERS

PAPER HOLDER

Filed June 17, 1922 2 Sheets-Sheet 1

FIG. I.

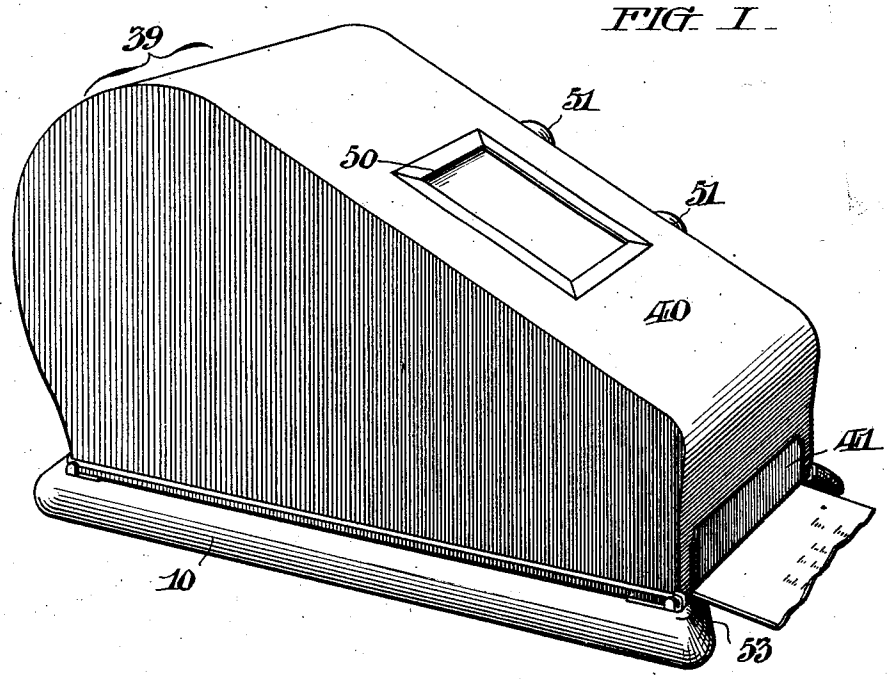
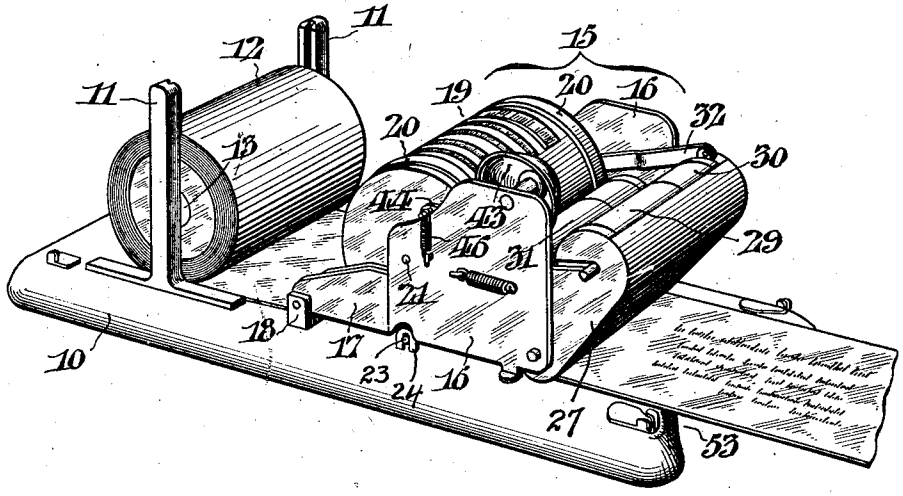


FIG. II.



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BY Fraley & Paul
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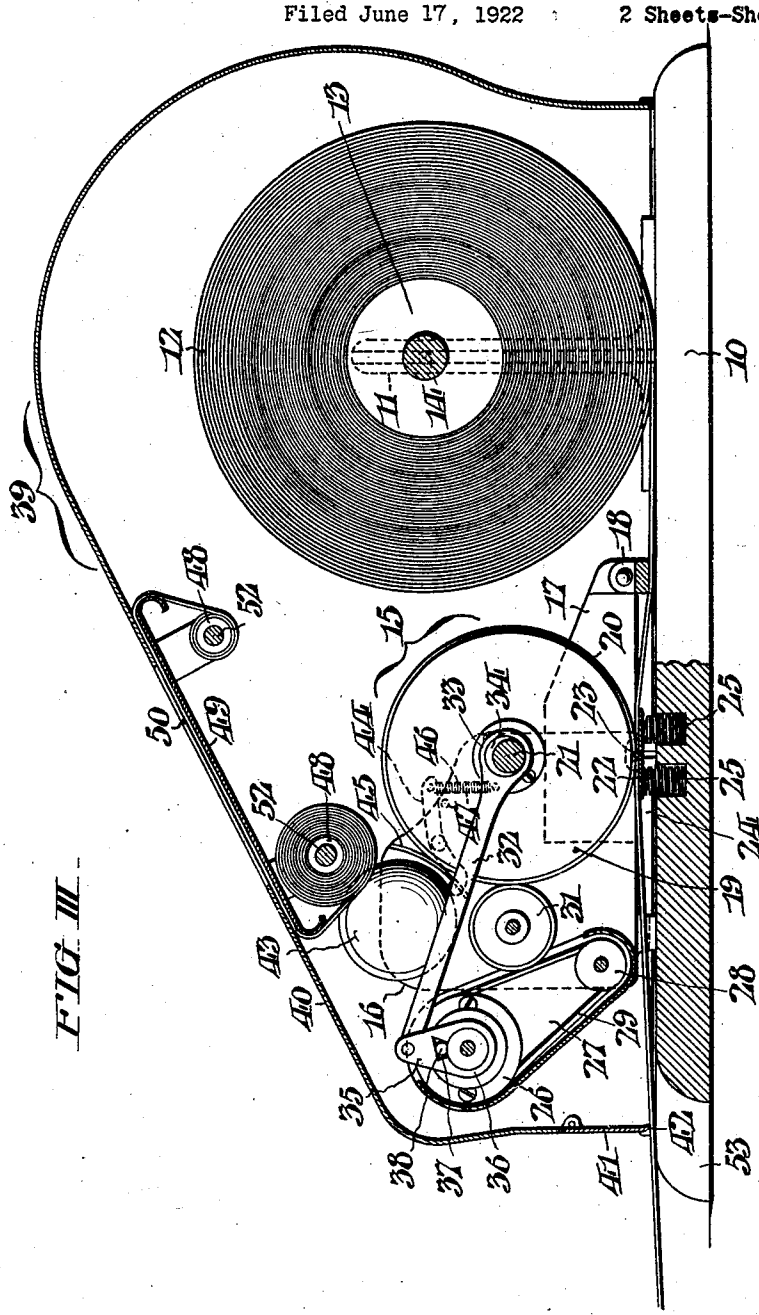


FIG. III.

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Patented Apr. 7, 1925. 1,532,837

UNITED STATES PATENT OFFICE.

HIESTER SEIDERS, OF READING, PENNSYLVANIA, ASSIGNOR TO INTERNATIONAL ADVERTISING SPECIALTY COMPANY, OF WERNERSVILLE, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

PAPER HOLDER.

Application filed June 17, 1922. Serial No. 568,972.

To all whom it may concern:

Be it known that I, HIESTER SEIDERS, a citizen of the United States, residing at Reading, county of Berks, State of Pennsylvania, have invented certain new and useful Improvements in Paper Holders, whereof the following is a specification, reference being had to the accompanying drawings.

This invention relates to paper holders of the type designed to revolubly support a roll of wrapping paper, whereby the latter may be withdrawn therefrom and severed in convenient lengths for use.

An object of the invention is to provide a paper holder of this character which embodies a means for applying successive duplicate imprints of subject matter suitable for advertising upon the strip of paper as the latter is unrolled, and to enclose the mechanism within a protective casing which may embody also, for the sake of convenience, a paper progressing means for receiving notations or data regarding sales.

Another object of the invention is to provide a printing mechanism for paper holders adapted to imprint upon the paper passing therethrough duplicate sections of advertising matter, and a novel means for applying different colored inks to different parts of the type, so that the resulting imprints may be attractively presented in different colors.

In addition to the foregoing this invention comprehends improvements in the details of construction and arrangement of the correlated parts to be hereinafter set forth and particularly pointed out in the appended claims.

In the accompanying drawings:

Figure I is a view in perspective of a combined paper holder and printing mechanism constructed in accordance with my invention.

Figure II is a view in perspective of the device with the casing omitted to disclose the interior working parts; and

Figure III is a view of the machine in longitudinal section.

With reference to the drawings, 10 indicates a base-board upon which are mounted at one end a pair of slotted uprights 11 to support and to receive therebetween a roll of paper 12 carried upon a core 13, having end trunnions 14 which ride in vertical slots formed in the adjacent faces of said uprights 11. The exposed end of the paper is intended to be drawn horizontally along the surface of the base-board 10 and beneath a printing mechanism indicated comprehensively by the numeral 15, and to imprint sections of advertising matter as the paper is unwound, means being provided to permit the end of the paper to be severed in convenient lengths. The printing mechanism consists essentially of a pair of frame plates 16, each having a rearward extension 17 which extensions are pivotally connected to and supported upon brackets 18, arising from the base 10, whereby said frame plates may be raised and lowered for a purpose to be presently noted. Mounted upon and between the frame plates 16 is a printing roller 19, bearing upon its face the type, through the medium of which the printing is effected, and having bands 20 applied circumferentially thereto, one at each end, the surfaces of which coincide substantially with the printing surfaces of the type, so as to properly space the roller from the paper and to insure frictional contact between the roller and paper, whereby the former is rotated by communicative rotating movement as the paper is drawn from the machine. The rotative support of the printing roller 19 is effected by means of a pair of concentric trunnions 21 which enter openings in the frame plates 16 provided for that purpose. To insure contact of the paper with the face of the printing roll 19, the paper is caused to travel over a platen 22, which consists of a plate extended transversally of the machine, and having end pins 23, which travel in vertical slots formed in brackets 24, extending upward from the base, said platen 22 being urged upward by means of springs 25 interposed therebeneath and seated in recesses in the base-board 10. The inking mechanism, whereby the face of the type is continually supplied, consists of a roller 26, Fig. III which is pivotally carried upon and between end plates 27, secured to the inner faces of the frame plates 16, and a roller 28 pivotally mounted adjacent the lower end of said plates 27. The rollers 26 and 28 are designed to support one or more endless inking bands 29 and 30, which are trained around said rollers, and which are designed to engage a transfer roller 31, journaled upon and between the frame plates 16, and having one

or more padded surfaces designed to engage the corresponding bands 29 and 30, and also to engage the face of the type carried by the printing roller 19 during rotation of the latter. The roller 31 is supplied with end bands engaging those of the printing roller 19 to increase frictional contact therebetween. In this manner the bands 29 and 30 may be supplied with ink of different colors and the ink transferred through the medium of the roller 31 to certain portions of the type of the printing roller 19, so that the advertising matter may be printed in two or more colors to render the effect more striking. In order to present successive portions of the color bands to the transfer roller 31 to insure uniform inking of the type, the color bands 29, 30, are progressed in an automatic manner by any means found suitable or convenient, and as one example, I have illustrated in the drawings a mechanism, consisting of a link 32, having one end enlarged and apertured to form an eccentric strap 33, which receives an eccentric enlarged portion 34, formed with one of the end trunnions 21 of the printing roller 19, the opposite end of the link being pivotally connected to an arm 35, which loosely receives a smooth faced clutch member 36, rigidly secured to one end of the roller 26. A recess 37 is formed in the arm 35 shaped to include a binding surface, disposed tangentially relative to the face of the enlargement 36 to receive a cylindrical element 38 within said recess, whereby during oscillatory motion of the arm 35 the clutch member 36 may be alternately fixed in binding engagement therewith and subsequently released to cause continuous rotation of the clutch member 36, and consequently the roller 26 in one direction only. If desired an ordinary pawl and ratchet mechanism may be substituted for the pin clutch described. The mechanism described is preferably enclosed by means of a casing 39, having an open side which is inverted over the mechanism and secured to the base-board in any suitable manner, and is preferably formed with its top surface 40 disposed at an incline, while an opening is formed in one end wall to permit the end of the paper to issue therefrom, subsequent to the application thereon of the imprint. The opening is closed by means of a door 41, hingedly mounted, and having a sharpened lower edge 42, across which the paper is drawn for the purpose of severing a portion from the strip. In order to enable the operator to actuate the mechanism by withdrawal of the paper, so as to insure production of the imprint in the center of each section of predetermined length severed, a signaling mechanism is provided, the actuations of which apprize the operator of the exact moment for severing the paper. Any signaling mechanism found suitable or convenient may be utilized, and as one example, I have indicated a bell 43 which is mounted upon one of the end plates 16, and a pivotally mounted hammer 44, the striking end of which is normally held away from the bell by means of a slender leaf spring 45, and is urged into striking engagement by means of a coil spring 46, suitably anchored at one end, and having its opposite end secured to said hammer. A pin 47 is mounted upon one end of the printing roller 19 in an eccentric location, so as to engage the hammer 44 during each revolution of said printing roller, thereby causing the hammer 44 to strike the bell 43. To increase the utility of the machine described, a sales registering arrangement may be conveniently incorporated therein, and may consist of a pair of rollers 48, around which the ends of a strip of paper are wrapped, the intermediate strip passing between the inner side of the top wall 40 of the casing 39, and a supporting plate 49 disposed therebetween in close relation, said top wall 40, having an opening 50 through which the paper is exposed, so that notations regarding sales, etc., may be readily noted thereon, and the recorded sections of the strip progressed beyond the opening to expose unused portions, by means of suitable handles 51, one of which is applied to each protruding end of shafts 52, upon which the rollers 48 are mounted.

The machine is operated by grasping the exposed end of the paper fed from the roller 12, which may be readily done, especially if the door 41 is opened for that purpose, and if desired the adjacent end of the base-board may be cut away as at 53 to permit the hand to reach beneath the door. As the paper is withdrawn the printing roller 19 is rotated by frictional contact with its end bands 20, bringing the type which extends around one-half, more or less, of the circumference of the roller 19 into contact with the paper, so that the imprint is made and thereafter the signal actuated, warning the operator that the paper should be severed at that instant, in order to insure the production of a section of wrapping paper having a complete imprint located wholly thereupon, and in proper location. By arranging the type so that the lines of printed matter extend circumferentially of the roller 19, certain lines, for instance headlines, may be supplied with ink of an attractive color, for example red, by application from the band 30, and the remaining type supplied with black ink by application from the band 29. Obviously, to secure a section of paper of double the predetermined length it is but necessary to withdraw the slip until the signal has been twice actuated. It will also be apparent that the machine may be made of any width desired to provide strips or sections of wrapping paper

or other flexible material of an area suitable for the requirements of the user of the machine; and other variations and changes in the details of construction to secure contemplated results may be readily resorted to without departing from the spirit of the invention or the scope of the appended claims.

Having thus described my invention, I claim:

1. A device of the character described comprising means for supporting a strip of paper in roll formation whereby it may be withdrawn as required by unwinding of the roll, a printing roller carrying type adapted to engage the paper and be rotated by frictional engagement therewith to print successive imprints at spaced intervals along the paper during its withdrawal, means comprising an endless band and a transfer device for inking the type, and means operable by rotation of the printing roller to intermittently progress the inking means.

2. A device of the character described comprising means for supporting a roll of paper whereby the paper may be unwound from the roll as desired, printing mechanism through which the end of the strip is passed, whereby successive imprints of subject matter are applied to the paper at spaced intervals automatically during and by the act of withdrawal, said printing mechanism comprising a roller bearing type and engaging the paper, inking mechanism comprising endless bands mounted for progressive movement, a transfer roller for transferring color from the bands to the printing roller, and means operable by rotation of the printing roller to intermittently progress the inking bands relative to the transfer roller.

3. A device of the character described comprising a printing roller adapted to engage a strip of paper drawn across its face by rolling contact therewith to imprint successive duplicate sections of printed matter, and a plurality of intermittently moving inking bands arranged in successive order, longitudinally of the roller, and a transfer roller contacting therewith to supply inks of different colors to different portions of the type, whereby the resulting imprints may be in multicolor.

4. A device of the character described comprising a base-board, means for supporting a roll of paper for rotation whereby the exposed end of the strip may be drawn across the face of the board, a frame mounted upon the board in spaced relation to the roll of paper with capacity for movement in a vertical plane, a printing roller carried by the frame and adapted to rest upon the paper, a spring platen urging the paper from beneath against the roller, inking bands adapted for intermittent progression, a transfer roller to transfer ink from the bands to the printing roller, means operable by rotation of the printing roller to intermittently progress the inking bands, and a casing mounted on the board enclosing the mechanism and having an opening from which a severing edge is suspended, whereby the strip may be drawn there across to sever the same in convenient sections for use, each section bearing an imprint.

In testimony whereof, I have hereunto signed my name at Reading, Pennsylvania, this 13th day of June, 1922.

HIESTER SEIDERS.

Witnesses:
N. R. Rothermel, Jr.,
A. Fisher.