

Jan. 14, 1930.

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1,743,832

PAPER BALER

Filed Aug. 26, 1929

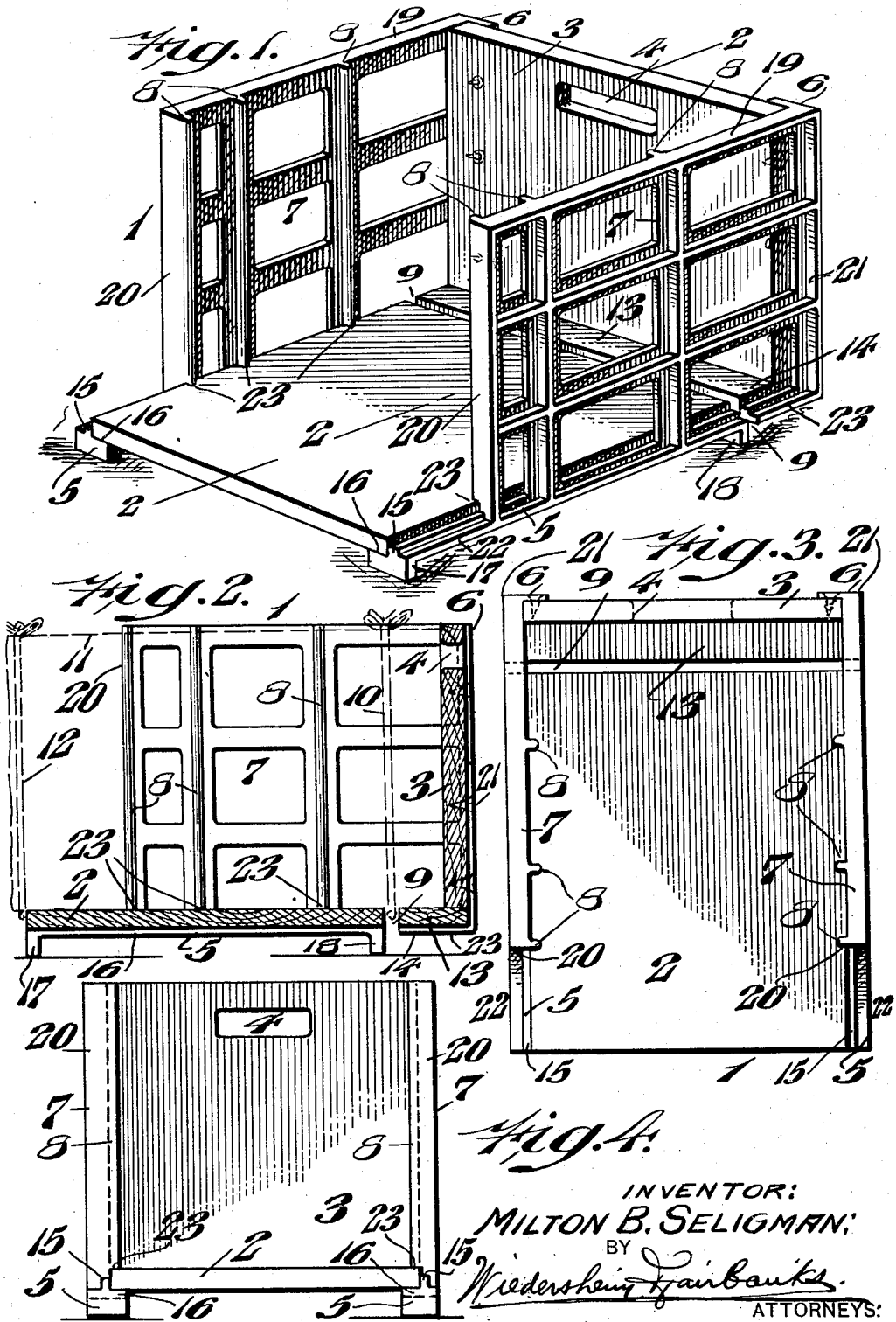


Fig. 4.

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PAPER BALER

Application filed August 26, 1929. Serial No. 388,393.

My invention relates to a new and useful paper baler and it relates more particularly to a newspaper baler adapted for household use to facilitate the assemblage and disposal of old newspapers and the like.

As is well known, newspapers, magazines, and other waste paper tend to accumulate pending final disposal, occupying in the meantime a relatively large space and presenting an untidy and unsightly appearance. To avoid these conditions it has been the practice to dispose of papers daily by burning or otherwise, which practice is not altogether profitable or convenient, especially in view of the fact that it is possible to dispose of waste paper at a profit if the proper amount is accumulated and baled or offered for disposal in a proper way.

With the above ends in view, my invention consists of a novel paper baler wherein waste paper, in folded condition or otherwise, can be accumulated, and then tied up into a neat bundle of a predetermined size, which can be sold to waste paper collectors, and which pending accumulation and disposal may stand in an out of the way position and presents a neat and attractive appearance.

My invention further consists of a novel paper baler having a novel side wherein the papers collected are automatically stacked up in a neat pile, without the necessity of accurate folding, positioning or spacing.

My invention still further consists of various other novel features of construction and advantage, all as hereinafter described and claimed.

For the purpose of illustrating my invention I have shown in the accompanying drawings one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of the instrumentalities as herein shown and described.

In the accompanying drawings:

Fig. 1, represents a perspective view of a paper baler embodying my invention.

Fig. 2, represents a section on line 2—2 of Fig. 1.

Fig. 3, represents a plan view of Fig. 1.

Fig. 4, represents an elevation of Fig. 1, viewed from the left hand end thereof.

Referring to the drawings, in which like reference characters indicate like parts, 1 designates a novel paper baler embodying my invention comprising the base 2, and the upright back or rear wall 3, having the hole 4 which forms a handle whereby the baler 1 may be grasped and moved about. The base 2 and back 3 are preferably assembled by means of a common preferably integral frame composed of the bottom U-beams 5 forming supports for the base 2, the rear vertical angle irons or flanges 6 which support the back 3 and the grilles 7 which form side walls for the baler. The side walls 7 are provided with the inwardly projecting vertical spacing ribs 8 which serve as guides to space the paper positioned within the baler from the inner surfaces of the side walls 7. The base 2 is provided with the rear slot or groove 9 which extends entirely through said base and is adapted to receive a cord or string 10 whereby the papers forming the stack 11 are readily tied before removal from the baler 1. Another string or cord 12, seen at the left of Fig. 2, is tied around the outer end of the stack of papers 11 and the bale of papers thus formed is withdrawn, and another bale is started by the accumulation of waste papers. It will thus be seen that it is merely necessary to place the waste paper on the base 2, such paper being folded or otherwise, according to size, until a complete stack 11 is formed, whereupon the cords 10 and 12 are applied as shown in Fig. 2. The vertical spacing ribs 8 on the inner faces of the side walls 7 serve to space the stack of papers from said side walls to prevent jamming and to keep the edges of the papers in alignment. The spacing of the papers from the side walls 7 also facilitates the insertion of the rear cord 10 between the side walls 7 and the edges of stack of papers 11 by forming a space for the convenient manipulation of the tying

cord 10. It will also be seen that the slot 9 extends clear through the base 2, so that the string 10 is merely slipped under the rear portion 13 which rests on the ledge 14 and then drawn upwardly into contact with the bottom of the stack 11, the free ends of the string being then inserted between the side edges of the stack 11 and the side walls 7 (due to the spacing of said stack by the vertical ribs 8) and being finally tied around the stack 11, as shown in Fig. 2. The side grilles or walls 7 are not coextensive with the base 2, which projects beyond said walls as will be seen in Figs. 1 and 2, so that the front end of the stack 11 is free and accessible to facilitate displacement of said stack from the baler. By making the side walls open or in the form of grilles, the weight is reduced, and in addition the hand of the operator can be readily inserted to arrange the papers being baled. The beams 5 are provided with the upper ribs 15 which form guides for the edges of the base 2 which rests on or is supported by the ledges 16, as will be understood from Fig. 1.

In the preferred embodiment of my invention, the side frames 7 are preferably cast integral and provided with the front and rear bottom feet 17 and 18, the top portion 19 and the front and rear uprights 20 and 21, the lower front portions of the side frames being extended as at 22 beyond the front uprights 20, whereby the front edges of the papers to be baled are readily accessible for manipulation and tying. The rear open slot 9 is preferably formed by spacing the rear strip 13 away from the rear edge of the base 2, as seen in Figs. 1 and 2, and supporting its ends upon the inner ledges formed on the inwardly deflected bottom members 23, which are preferably integral with the rear uprights 21, as will be understood from the lower right hand portions of Figs. 1 and 2. By constructing the side frames 7 in the manner described the parts can be readily assembled by positioning the base 2 and rear strip 13 upon their supporting ledges, after which the vertical back 3 can be dropped into place upon the strip 13, and secured by screws as shown dotted in Figs. 1 and 3. The vertical ribs 8 terminate at the points 23, so that ways are formed between said points 23 and the inwardly extending ledges 16, as seen in Figs. 1 and 4, so that the base 2 can be slid horizontally into position and frictionally retained without the use of extraneous fastening devices.

I am aware that the invention may be embodied in other specific forms without departing from the spirit or essential attributes thereof, and I therefore desire the present embodiment to be considered in all respects as illustrative and not restrictive, reference being had to the appended claims rather than

to the foregoing description to indicate the scope of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. The herein described baler, comprising a base, a vertical rear wall, and vertical side walls beyond which the front of said base projects, there being a through slot in the rear of said base, and vertically disposed spacing ribs on the inner surfaces of said side walls for forming spaces between said walls and the edges of the material being baled to manipulate a tying cord.

2. The herein described baler, comprising a base, a vertical rear wall, and vertical side walls beyond which the front of said base projects, there being a through slot in the rear of said base, vertically disposed spacing ribs on the inner surfaces of said side walls for forming spaces between said walls and the edges of the material being baled to manipulate a tying cord, and ledges extending inwardly from said ribs for supporting said base, said vertical ribs terminating above said ledges thereby forming ways for the reception of said base.

3. In a device of the character described, a pair of side walls forming grilles, each having a top and bottom, front and rear uprights and a bottom extension projecting horizontally beyond said front upright, vertical flanges projecting inwardly from said rear uprights, a vertical back wall positioned against said flanges, vertical ribs projecting inwardly from said side walls, inwardly projecting bottom ledges for each of said side walls, a base supported on said ledges and projecting in front of said front uprights, and a horizontal back strip supported from said side walls and spaced away from the rear edge of said base to form a through slot for a tying cord.

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