H. H. BURNS.

BALER.

APPLICATION FILED APR. 12, 1917.

1,250,558. Patented Dec. 18, 1917.

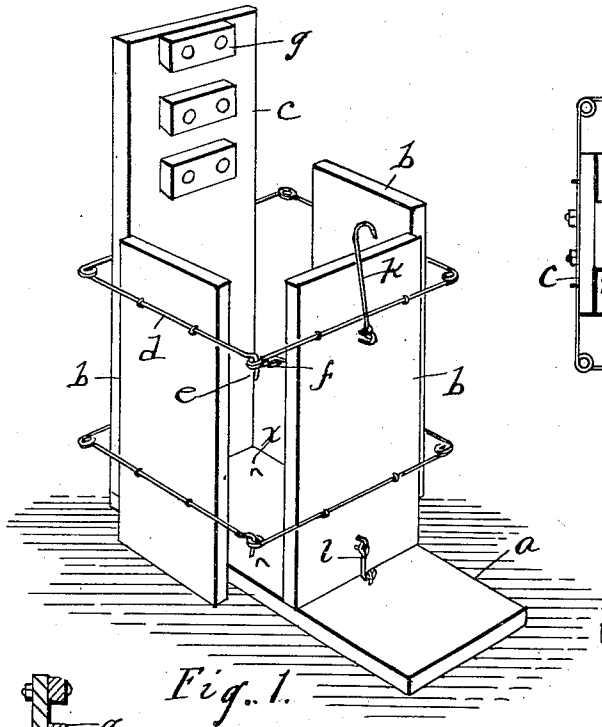


Fig. 1.

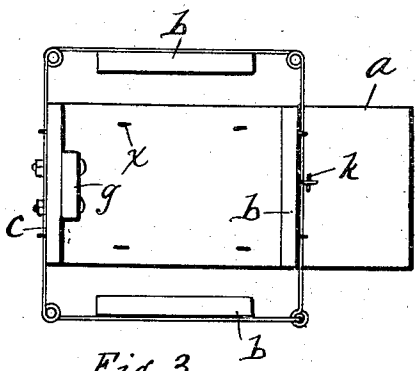


Fig. 3.

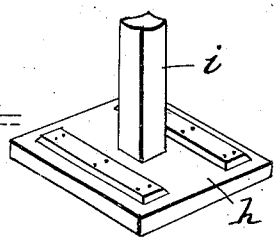


Fig. 4.

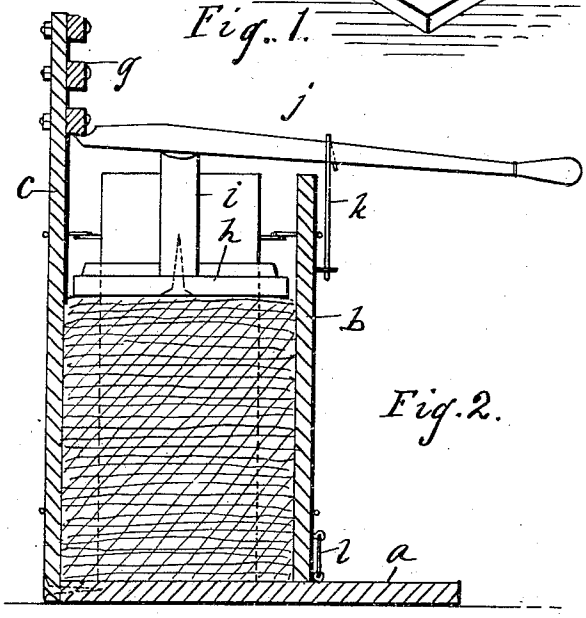


Fig. 2.

Inventor

HENRY H. BURNS.

By Raymond A. Parker

Attorney

UNITED STATES PATENT OFFICE.

HENRY H. BURNS, OF BATTLE CREEK, MICHIGAN.

BALER.

1,250,558. Specification of Letters Patent. Patented Dec. 18, 1917.

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To all whom it may concern:

Be it known that I, HENRY H. BURNS, a citizen of the United States, residing at Battle Creek, county of Calhoun, State of Michigan, have invented a certain new and useful Improvement in Balers, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to paper balers, and has for its object a paper baler characterized by simplicity of construction and inexpensiveness to build. It is intended as a home baler for family use and to this end is made in such a way that it can be sold unusually cheap.

In the drawings,—

Figure 1 is a perspective of the baler.

Fig. 2 is a vertical section of the same.

Fig. 3 is a top plan view.

Fig. 4 is a perspective of the plunger or ram.

The baler comprises simply a floor *a*, three side walls *b*, and a rear wall *c*. The three side walls *b* are secured to the rear wall *c* and in hinging relation by the simple expedient of a banding wire *d* anchored to the walls by staples and looped at the corners to give it the hinging function. One end of the banding wire is provided with a hook *e* which may be hooked into the double loop *f* at the other end to complete the band.

The side walls and floor are all made of wood and may each be a single slab. The walls will not meet at the corners but are somewhat spaced from each other so as to eliminate unnecessary use of material and to give the banding wires opportunity to flex in the hinging functions they carry out.

The rear wall *c* is provided with an upward extension upon which are bolted a plurality of cleats *g* which are slightly undercut. A ram consisting simply of a board surface *h* and an upstanding post *i* is used but is not attached to the other part of the mechanism. When the baler has been filled with waste paper the ram may be thrown on the top and the lever *j* which is also not attached to the baler may be hooked under one of the cleats and turned down against the upstanding post *i*, forcing the ram down upon the waste paper with a large mechanical advantage.

When the lever *j* has gone down as far as it will, the hook *k* may be hooked over the top of it to hold it in the position shown in Fig. 2, and in this condition the apparatus may be left until it is desired to add more paper at some subsequent time, whereupon the hook *k* may be removed, the ram taken out, and the same process repeated.

Hooks *x* are driven into the baler floor to secure the baling cord in place before putting the waste paper in the baler. The ends of the baling cord or wire may be secured in place by slipping them under the banding wire on the baler.

The floor *a* protrudes somewhat in front of the baler to prevent the lever from tipping the same when pressure is brought upon it. The front wall *b* is hooked to the extended floor by means of the hook *l* so that when the hook *k* is hooked over the lever the front wall will not ride up with the lever.

What I claim is:

1. In a baler, the combination of side walls and one or more banding wires anchored to the side walls and looped at the corners to hold the side walls together and to act as hinges.

2. In a baler, the combination of side walls, banding wires anchored to the side walls and looped at the corners to act as hinges, one end of the banding wire being looped and the other provided with a hook so as to detachably engage the same.

3. In a baler, the combination of a plurality of side walls, a floor, the rear wall being provided with cleats, a ram having an upstanding post, a free lever which can hook under the cleats, a hook on the front wall for engaging over the lever when the ram is depressed, and means for securing the bottom of the front wall to the floor.

In testimony whereof, I sign this specification.

HENRY H. BURNS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."