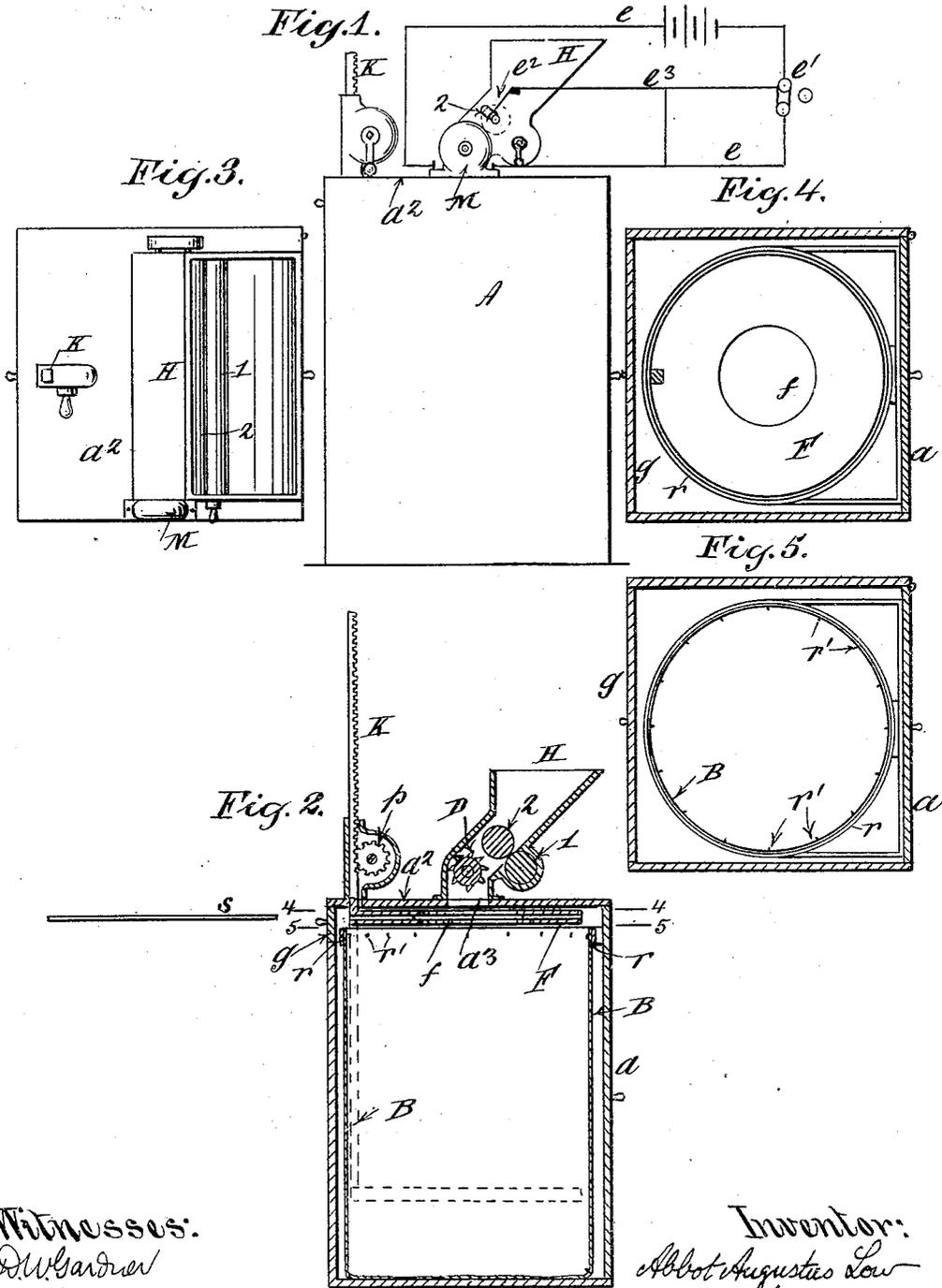


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 WASTE PAPER RECEPTACLE.  
 APPLICATION FILED FEB. 2, 1909.

929,960.

Patented Aug. 3, 1909.



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# UNITED STATES PATENT OFFICE.

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## WASTE-PAPER RECEPTACLE.

No. 929,960.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed February 2, 1909. Serial No. 475,661.

*To all whom it may concern:*

Be it known that I, ABBOT AUGUSTUS Low, a citizen of the United States, residing at Horseshoe, St. Lawrence county, and State of New York, have invented certain new and useful Improvements in Waste-Paper Receptacles, of which the following is a specification.

My invention relates to the provision of improved means for disposing of waste paper and is designed more particularly for use in offices and other places where not only the collection and storage of waste paper is desirable, but also its cancellation or mutilation in such manner as to render it unavailable or unintelligible for re-use or for information.

The invention consists primarily of a receptacle having a cutting or cancelling device interposed between it and a receiving hopper, whereby the papers are disintegrated and rendered useless as such before they enter the body of the receptacle, in which latter the fragments are stored temporarily in a suitable bag to be removed from time to time for the disposition of the waste.

My invention also includes a device for compressing and packing the disintegrated paper within the receptacle; means for stopping the device automatically, and certain other features in the construction and arrangement of parts hereinafter described and claimed specifically.

In the accompanying drawings, Figure 1, is an elevation of my improved waste paper receptacle; Fig. 2, a central vertical section of the same; Fig. 3, a top view of the same; Fig. 4, a horizontal section upon plane of line 4—4—Fig. 2; and Fig. 5, a horizontal section upon plane of line 5—5—Fig. 2.

A, is an inclosed box or casing of any suitable shape and construction provided with a door *a*. Attached to the upper part of the box, preferably on the door *a*, is a ring *r*, provided with hooks *r'*, or equivalent devices for the support of a waste paper bag B,—said ring *r*, holding the mouth of the bag extended and open to receive the paper from above.

H, is a receiving hopper situated on the top *a*<sup>2</sup>, of the receptacle. In the lower part of this hopper H, or interposed between it and the opening *a*<sup>2</sup>, into the receptacle, is the canceling or disintegrating device D, consisting of a rotatable cutter, grinder or equivalent

mechanical expedient adapted to cut, tear or otherwise disintegrate the paper to such an extent as to practically render it useless, excepting as paper waste, and prevent its use as a means of information or fraud. The disintegrating device D, may be operated by an electric motor M, a crank or any other suitable means, as may be found most expedient.

In order to compress the waste paper in the bag B, I provide a packing follower F, formed with a central opening *f*, through which, ordinarily the waste paper falls into the bag. This opening *f*, may be closed however by a slide *s*, when it is desired to compress the waste and the follower F, is then depressed and lowered into the bag as far as may be desired by means of a rack K, and pinion *p*, or other equivalent mechanism. The slide *s*, may be inserted to close the hole *f*, through the medium of a door *g*.

I prefer to operate the device by means of the electric motor M, and to arrange for the automatic stopping of its operation when the feed of paper to the hopper H is discontinued. This I accomplish by inserting in the electric circuit *e*, two switches *e'*, and *e*<sup>2</sup>. The first *e'*, is closed by hand to start the motor. The feed of paper between the feed rolls 1 and 2 raises the upper roll 2 so that it raises and closes the switch *e*<sup>2</sup>, when the hand switch *e'*, may be again opened, since the switch *e*<sup>2</sup>, will maintain a closed circuit through *e*<sup>3</sup>, as long as paper is passing between the rolls 1 and 2. When the paper has all been fed in the roll 2 drops, causing the switch *e*<sup>2</sup>, to break the circuit and stop the apparatus. Thus the device is in operation only when required for actual use.

My device is especially advantageous for use in offices, banks, counting houses, &c., under conditions, where the practical destruction of correspondence, memoranda, liquidated bonds, accounts, books &c., and the like is a desideratum, in that it reduces the paper and disintegrates it to such an extent that it can only thereafter be sold or used as "paper waste",—an article thus produced having a special market value, but serving no other purpose,—since the particles of paper are useless for identification, information, or fraudulent purposes of any character. Furthermore the reduction and storage of the paper waste is a safeguard against fire

that might otherwise occur or be promoted by the presence of papers scattered around promiscuously.

The axis of the roll 1, may be formed to receive a crank which may be used in lieu of the motor, if desired, and the disintegrating device may also, as heretofore intimated be operated directly by a crank or other mechanical expedient.

10 What I claim as my invention and desire to secure by Letters Patent is,

1. In a waste paper receptacle of the character designated, the combination with the receptacle and receiving hopper, of a disintegrating device interposed between said receptacle and said receiving hopper, for the purpose described.

2. In a waste paper receptacle of the character designated, a receptacle, a receiving hopper, a disintegrating device interposed between said hopper and the receptacle, a packing follower in the receptacle, and means for actuating said packing follower, substantially in the manner and for the purpose described.

3. In a waste paper receptacle of the character designated, the combination of a receptacle, a receiving hopper, a disintegrating device interposed between said hopper and the receptacle, a packing follower in said receptacle formed with a central opening, a slide for closing said opening, and means for actuating said packing follower, substantially in the manner and for the purpose described.

4. In a waste paper receptacle of the character designated, the combination of a receptacle, a receiving hopper, a disintegrating device, interposed between said hopper and the receptacle, and a detachable bag in said receptacle arranged to receive the waste paper

after it leaves the disintegrator, substantially in the manner and for the purpose described.

5. In a waste paper receptacle of the character designated, the combination of a receptacle, a receiving hopper, a disintegrating device interposed between said hopper and said receptacle, a detachable bag in said receptacle arranged to receive the waste paper from the disintegrator, a packing follower in said receptacle formed with a central opening, a slide for closing said opening, and means for actuating said packing follower, substantially in the manner and for the purpose described.

6. In a waste paper receptacle of the character designated, the combination with the receptacle of a receiving hopper, a disintegrating device interposed between said receptacle and said hopper, an electric motor arranged to operate said disintegrating device, and means for automatically stopping the motor when the feed of paper is discontinued.

7. In a waste paper receptacle of the character designated, the combination with the receptacle of a receiving hopper, a disintegrating device interposed between said receptacle and said hopper, an electric motor arranged to operate said disintegrator, rolls in the hopper arranged to feed the paper to the disintegrator, one of said rolls being free to yield to the paper fed to the disintegrator, and a switch controlled by said yielding roll in such manner as to open the circuit when the feed of paper is discontinued, for the purpose described.

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