

(No Model.)

2 Sheets—Sheet 1.

G. A. HASTINGS.
SWING SUPPORT FOR BARRELS.

No. 539,754.

Patented May 21, 1895.

Fig. 1.

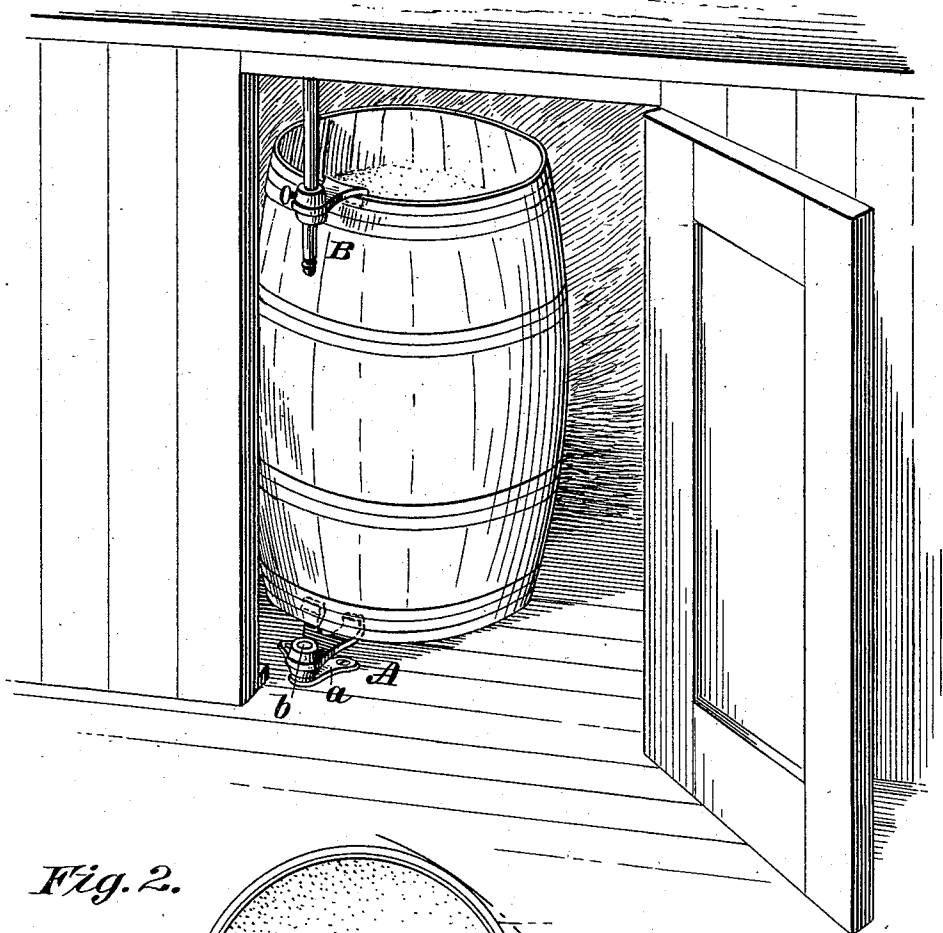
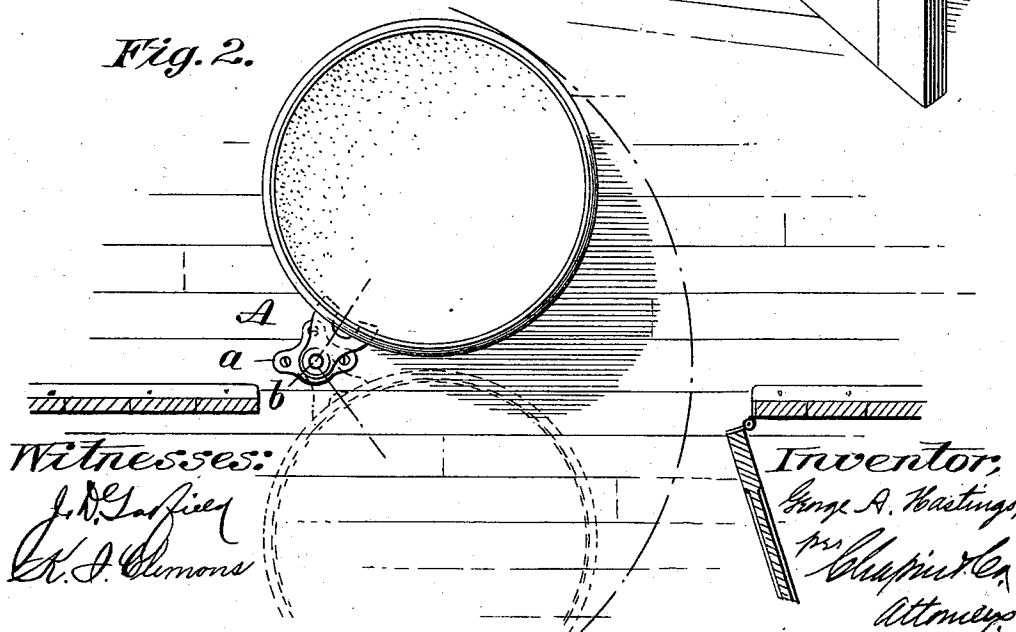


Fig. 2.



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Fig. 3.

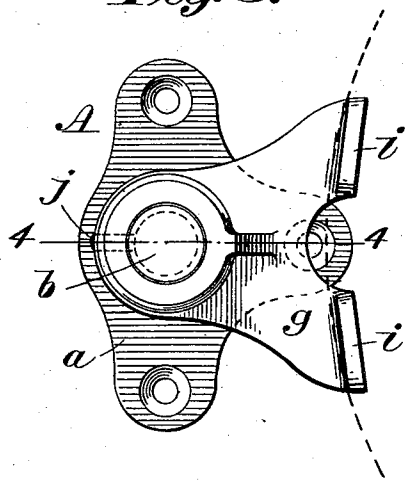


Fig. 5.

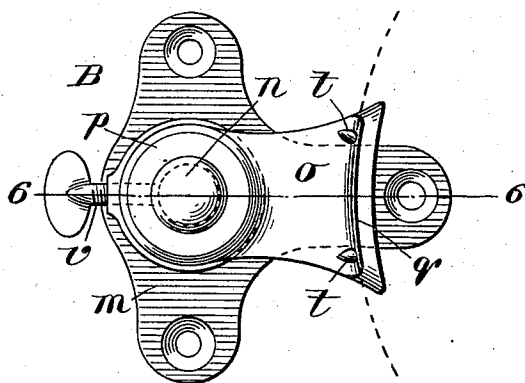


Fig. 4.

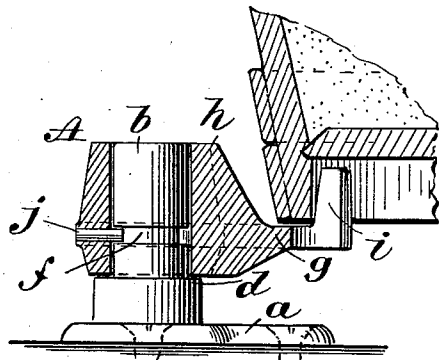
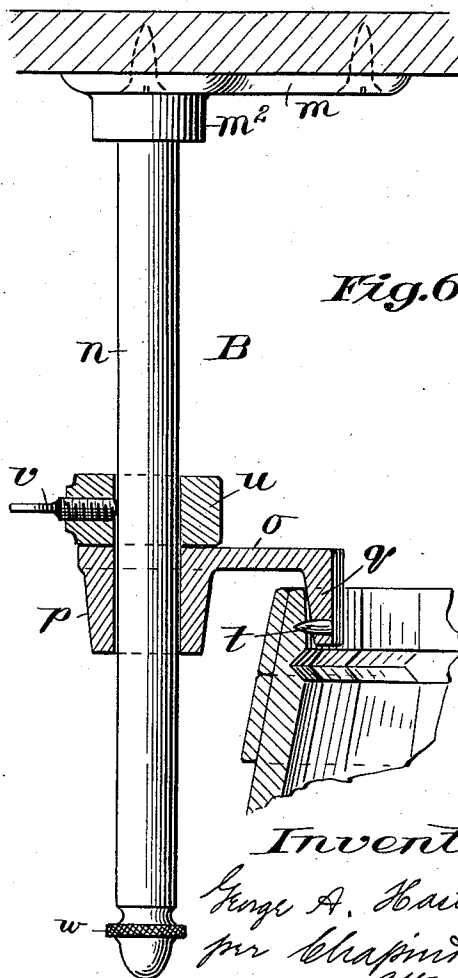


Fig. 6.



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UNITED STATES PATENT OFFICE.

GEORGE A. HASTINGS, OF ORANGE, MASSACHUSETTS, ASSIGNOR TO THE
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SWING-SUPPORT FOR BARRELS.

SPECIFICATION forming part of Letters Patent No. 539,754, dated May 21, 1895.

Application filed March 15, 1893. Serial No. 466,144. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. HASTINGS, a citizen of the United States, residing at Orange, in the county of Franklin and State of Massachusetts, have invented new and useful Improvements in Swing-Supports and Constraining Devices for Flour-Barrels, &c., of which the following is a specification.

This invention relates to swinging devices for supporting a flour or meal barrel, or like receptacle, within a cupboard, or under a shelf, which devices serve to permit and properly constrain the barrel while supported free from the floor to be swung out through the door of the cupboard, or out from under the shelf, whereby the contents may be conveniently rendered accessible; and the invention consists in constructions and combinations of parts, all substantially as will hereinafter fully appear and be specifically pointed out in the claim.

Reference is to be had to the accompanying drawings, in which this invention is illustrated, Figure 1 being a perspective view showing a cupboard with the door thereof open and showing the supporting and constraining swing-arms and the barrel engaged thereby. Fig. 2 is a plan view of the same, the front wall and door of the cupboard being shown in horizontal section. Fig. 3 is a plan view, on a larger scale, of the lower support-arm and the part constituting its bearing, while Fig. 4 is a vertical section of the same, taken on the line 4 4 of Fig. 3, a portion of the barrel being also indicated in vertical section. Fig. 5 is a plan view, on a larger scale, of the upper constraining-arm and the part on which it is fitted for its swinging movements inverted, Fig. 6 being a vertical section of the same shown as supported by the cupboard top and having engagement with the upper chine of the barrel.

The parts will now be described with reference to their specific constructions, it being understood, however, that limitation is not to be made with respect to every detail precisely as shown.

The device for the lower support, A, consists of a foot-plate *a*, which is adapted to be screwed, or otherwise secured to the floor, the

same having formed thereon, or attached thereto, the upwardly extended stud, *b*, having near its bottom the hub or part to form the shoulder, *d*. The stud has the peripheral groove, *f*, above the shoulder. The arm, *g*, has a vertically bored hub, *h*, which is adapted to fit and freely turn on said stud, the bottom thereof resting upon the shoulder, *d*. The pin or screw, *j*, is passed through the bored hub and entered within the groove, *f*, preventing displacement of the swinging arm, *g*. The swinging arm has, at its extremity, lips or flanges, *i*, one or more, which, as seen in Fig. 3, are arranged in the arc of a circle to more or less nearly correspond to the lower chine of the barrel.

The device, B, which is supported above the barrel, consists of the plate or lug, *m*, which is adapted to be screwed or otherwise secured, to a suitable upper horizontal support, as a shelf or the top of the cupboard, said plate having the depending shaft or stud, *n*, which, in practice, may have a length of a foot, more or less. The swinging arm, *o*, has its hub, *p*, bored to easily fit and turn upon the stud, *n*, and at its extremity this arm has the depending arc-formed lip or flange, *q*, which, preferably, has one or more laterally extended spurs, *t*. The shaft, or stud, *n*, when set up, is placed in vertical axial alignment with the stud, *b*, which axis line, when the device is applied within a cupboard, is near and just within one vertical boundary of the doorway, as clearly indicated in Figs. 1 and 2.

On desiring to mount the unheaded barrel upon these swing-supports and constraining devices, the lower arm, *g*, is outwardly swung and the barrel is so tilted as to have the lower chine thereof, at one side, rest upon the arm and to be engaged by the lips, *i*, *i*. The upper arm, *o*, is now swung in line over the lower one, the collar, *u*, which is vertically adjustable on the depending stud, *n*, being loosened by turning the set screw, *v*, so that the said arm, *o*, may be slid vertically on the stud, *n*, to assume its position just above the edge of the barrel chine. The barrel is then canted toward the axis line to have its upper chine come within the line of the depending flange or lip, *q*, the arm, *o*, then being some-

what farther depressed. The barrel is then permitted to come to its upright position, whereupon it will be pierced by the spurs, *t*, the latter effectually assisting to prevent the barrel from having any swinging movement independent of the arms. The adjustable collar, *u*, prevents accidental disengagement of the upper arm from the upper part of the barrel.

10 By making the depending stud, *n*, of considerable length these devices become adapted for utilization in connection with barrels or half-barrels, or barrels of but slightly varying heights, all as manifest.

15 The shaft or stud, *n*, has at its lower extremity the enlargement, *w*, which prevents disengagement of the arm, *o*, from the stud when the arm is not in engagement with a barrel.

20 Having thus described my invention, what

I claim, and desire to secure by Letters Patent, is—

In a barrel support the foot plate *a*, having the shouldered stud *b*, *d*, rising therefrom and provided with the groove *f*, the swinging arm 25 *g*, placed upon the stud and provided with the upwardly turned flanges *i*, upon its inner edge; and the pin *j*, which passes through the arm and catches in the groove in the stud; combined with the plate *m*, the headed rod *n* 30 projecting downward therefrom, the swinging arm *o*, provided with a depending flange, pins which project from the flange to catch in the edge of the barrel, and a collar on the rod to hold the arm down on top of the barrel, substantially as shown and described. 35

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Witnesses:

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