

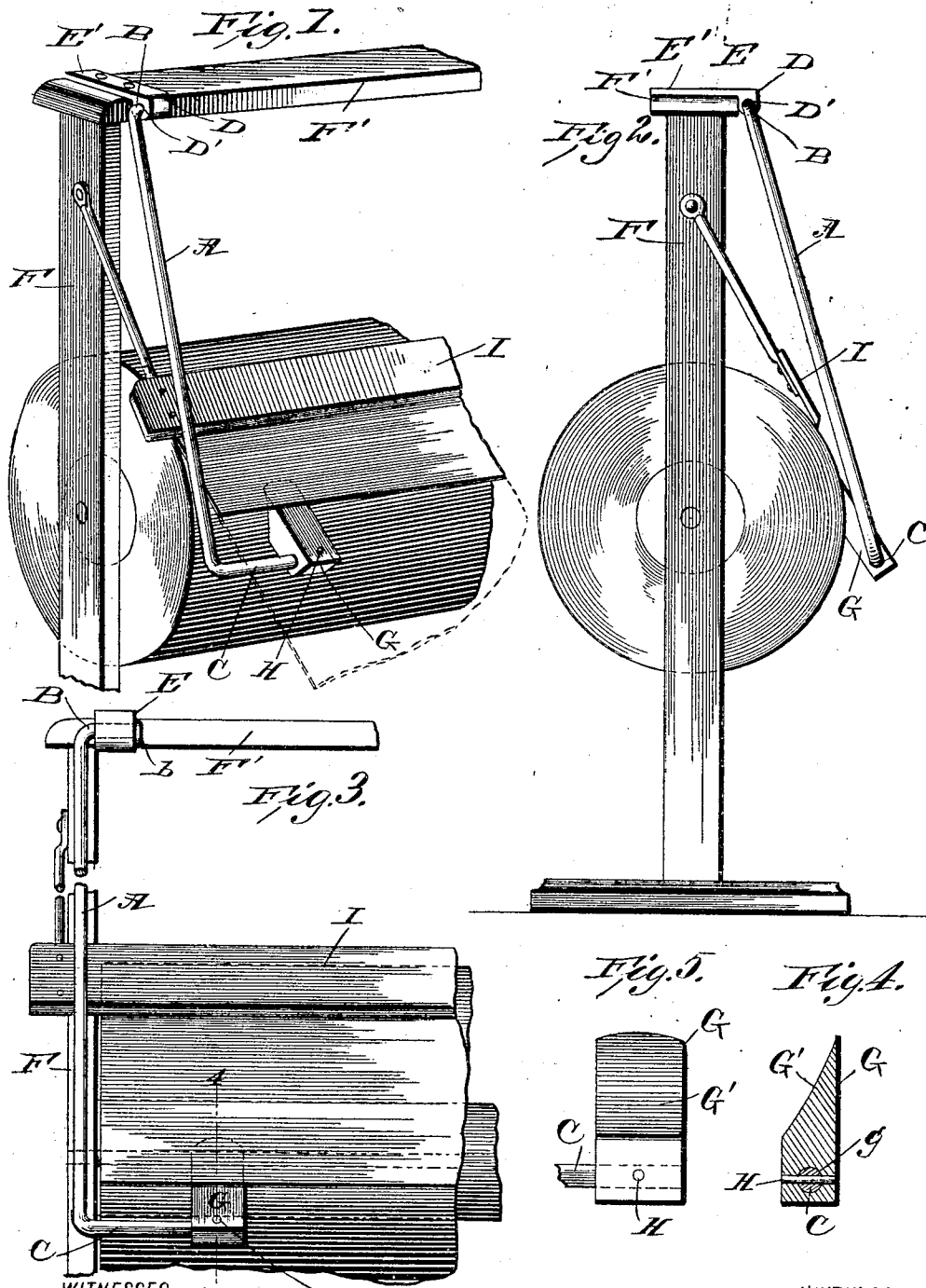
No. 823,318.

PATENTED JUNE 12, 1906.

E. S. BROWN.

PAPER LIFTING DEVICE FOR PAPER ROLLS.

APPLICATION FILED MAR. 28, 1906.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

ERNEST S. BROWN, OF WASHINGTON, DISTRICT OF COLUMBIA.

## PAPER-LIFTING DEVICE FOR PAPER-ROLLS.

No. 823,318.

Specification of Letters Patent.

Patented June 12, 1906.

Application filed March 28, 1906. Serial No. 308,475.

*To all whom it may concern:*

Be it known that I, ERNEST SCOTT BROWN, a citizen of the United States, and a resident of Washington, in the District of Columbia, have made certain new and useful Improvements in Paper-Lifting Devices for Paper-Rolls, of which the following is a specification.

My invention is an improvement in paper-lifting devices adapted for use on paper-rolls ordinarily employed for wrapping purposes; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of my improved lifting device as in use. Fig. 2 is a side view thereof. Fig. 3 is a front view, partly broken away. Fig. 4 is a detail sectional view of the lifting-finger on about line 4 4 of Fig. 3, and Fig. 5 is a detail rear view of the lifting-finger.

By my invention I seek to provide a device which will be simple in construction, efficient for the purpose for which it is designed, and can be readily applied to any of the ordinary frames for supporting wrapping-paper rolls in position for the finger to bear upon the paper-roll, so its free edge may by engagement with the edge of the paper of the roll lift such edge so it will be in convenient position to be grasped by the operator. The objections incident to the edge of the paper hugging closely the paper-roll are well known by those accustomed to use wrapping-paper off rolls, and by my improved device I provide for lifting the free edge of the paper at all times, so it will always be exposed and in position to be grasped by the operator.

As shown, my improved device comprises a swinging bar A, provided at its upper end with a short lateral arm B and at its lower end with a lateral arm C, both said arms projecting in the same direction from the bar A.

The upper arm B fits and turns within a bearing D' in a depending transverse lug or rib D at the front edge of a bracket E, having a top plate E', which ordinarily rests upon and is screwed to the upper side of the top bar F' of the frame F, in which the paper-roll is journaled. The lug or bead D projects downwardly below the lower surface of the top plate E and forms a stop to abut the front edge of the top bar F' of the frame F, as shown, and thus operates as a gage in applying the lifting device to the frame F, as will be understood from Figs. 1 and 2 of the

drawings. The end of the arm B is upset or riveted at *b*, so that the swinging arm is thus held permanently to the bracket, so it may turn freely therein in adjusting the lifting-finger to the paper-roll and in permitting the said finger to follow the surface of the paper-roll as the latter diminishes in diameter because of the paper being used therefrom.

The lower arm C extends inwardly, and upon it at or near its free end I secure the lifting-finger G in the form of a block having near its lower end an opening *g*, receiving the arm C, and the said block and arm having coincident transverse openings through which a pin H is passed in securing the lifting-finger rigidly upon the arm so its upper free edge will always bear closely against the surface of the paper-roll. The upper free edge of the finger or block G is edged and is preferably curved slightly from side to side to insure the desired separation of the free edge of the paper from the body of the roll, and the under side of the finger is curved at G', leading up to the edged free end thereof, to rest upon and coincide generally with the curvature of the paper-roll.

As shown in Figs. 1 and 2, the separating-finger bears upon the paper-roll below the cutter I, and the free edge of the paper as it passes below the said cutter I will be engaged by the finger G and lifted and thrown out, as shown in the drawings, so it may be readily grasped by the operator and pulled until the desired quantity of paper is drawn from the roll, when the paper may be cut on the blade I, as will be understood from the drawings.

In operation it will be noticed the parts are so arranged that the device may be readily secured to any of the ordinary frames now in common use, it being preferred to place the bracket with its stop or lug D against the front edge of the top bar of the frame and to secure the said bracket by screws passing through its top plate, as shown in the drawings. This facilitates the application of the improvement to devices already in use and also enables its ready connection with the frames in the course of manufacturing the same.

What I claim is—

1. The herein-described lifting device for use on paper-rolls, comprising a swinging bar provided at its lower end with a paper-lifting finger fitting and pinned on said lateral arm, the said finger being edged at its upper free

end and curved on its under side leading up to said edged free end, a lateral arm at the upper end of the swinging bar, and a bracket having a top plate to rest on a supporting-bar, and a depending lug or rib to abut the edge of said supporting-bar and provided with a transverse opening in which said upper arm of the swinging bar is journaled, the end of the said arm being upset or riveted whereby to secure it permanently within the lug or rib, substantially as set forth.

2. A lifting device for use on paper-rolls, comprising a bracket having a top plate, and

a lug or rib depending therefrom and having a transverse opening, a swinging bar having at its upper end a lateral arm journaled and held in said opening, the said bar being also provided at its lower end with a lateral arm, and a lifting block or finger having an opening fitted on said arm, and a pin passed through said finger and lateral arm and securing the same together, substantially as set forth.

ERNEST S. BROWN.

Witnesses:

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