

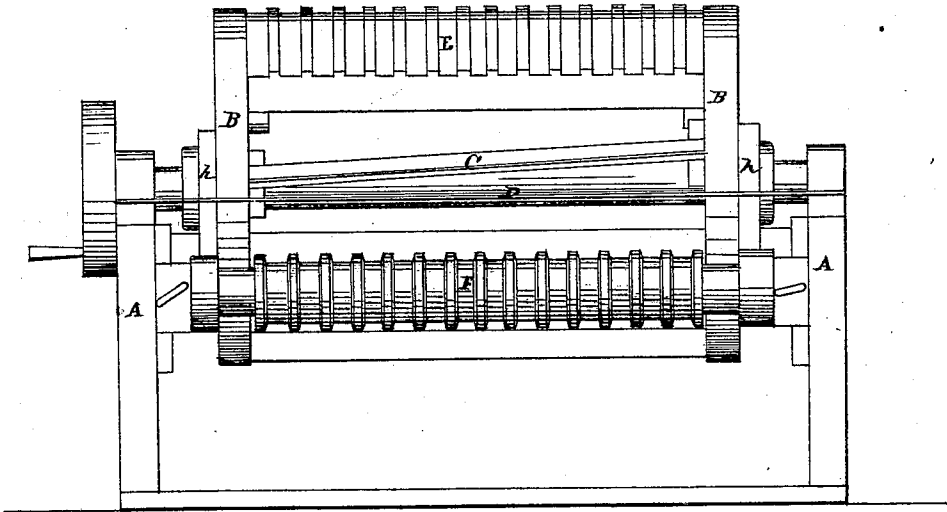
*W. H. Bleasdale,*

*Paper Machine.*

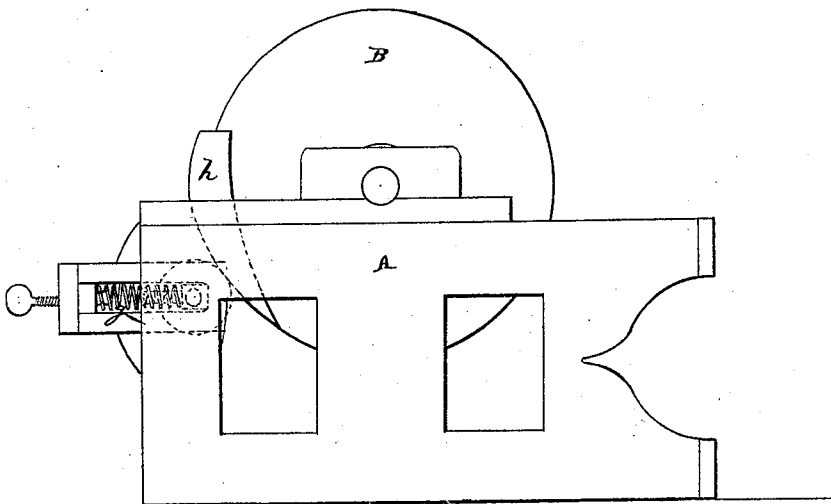
*No. 102,754.*

*Patented May 10, 1870.*

*Fig. 1.*



*Fig. 2.*



Witness  
*Geo. W. Tibbitts*  
*A. C. Tibbitts.*

Inventor  
*Wm. H. Bleasdale,*  
per *Tibbitts.*

# United States Patent Office.

WILLIAM HENRY BLEASDALE, OF CHAGRIN FALLS, OHIO,

Letters Patent No. 102,754, dated May 10, 1870.

## IMPROVEMENT IN CRIMPING-ATTACHMENTS TO PAPER-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

I, WILLIAM HENRY BLEASDALE, of Chagrin Falls, in the county of Cuyahoga and State of Ohio, have invented certain Improvements in Crimping-Attachments to Paper-Machines, of which the following is a specification.

The nature of this invention relates to a device to be attached to a paper-making machine for crimping the end of the paper just after a sheet has been cut off, the object being to crimp or crease the paper used in making paper bags, so that the mouths of the bags may be more easily gathered together for tying.

Figure 1 is a front view.

Figure 2 is a cross-section.

In the drawing—

A represents a frame, which may be a part of a paper-making machine, in which is arranged the device for crimping.

B is a cylinder, or rather part of a cylinder, as a greater portion of the sides may be left open.

On one side of said cylinder is a knife, C, placed slightly diagonally, which, working in conjunction with the blade D, cuts the paper into sheets once in each revolution of the cylinder.

This part of the machine I do not lay any claim to as new, but the following is a description of my invention.

In the aforesaid cylinder B, I place a bar, E, just above the knife C, or following it, made of wood or other suitable material, having on its outer surface a series of ribs running crosswise or in a line with the circumference of the said cylinder. This bar may be

of any suitable width to make the creases in the paper as long as desirable.

To the front side of the frame is placed a roller, F, having ribs around it which correspond to, and which mesh with, those on the bar E.

The paper, in passing between the two sets of ribs, and is creased or crimped by them.

The journal-boxes of the roller F are placed in slots, and have springs, *g g*, which keep the roller up to the cylinder, but, in order to move it out of the way of the knife C when it passes the roller, there are placed on each head of the cylinder B, cams, *h h*, which bear against the roller, pushing it forward sufficiently far to permit the knife to pass, when the springs force it back again, when the roller and bar, again coming in contact, crimps the end of the paper as it comes from the machine, alternately crimping and cutting off the sheets, these sheets being ready to be made up into bags, the mouth being crimped.

By the use of this machine the paper is ready crimped, thus obviating the labor and time necessary to prepare the same after the bags are made up.

I claim the combination and arrangement of the ribbed bar E and ribbed roller F, with a paper-making machine, substantially as and for the purpose set forth.

WILLIAM HENRY BLEASDALE.

Witnesses:

GEO. W. TIBBITTS,  
GEO. HESTER.