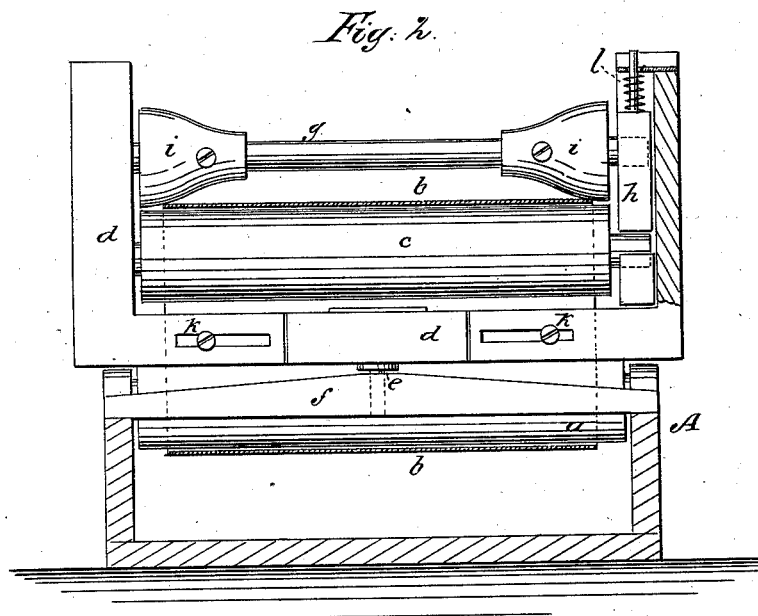
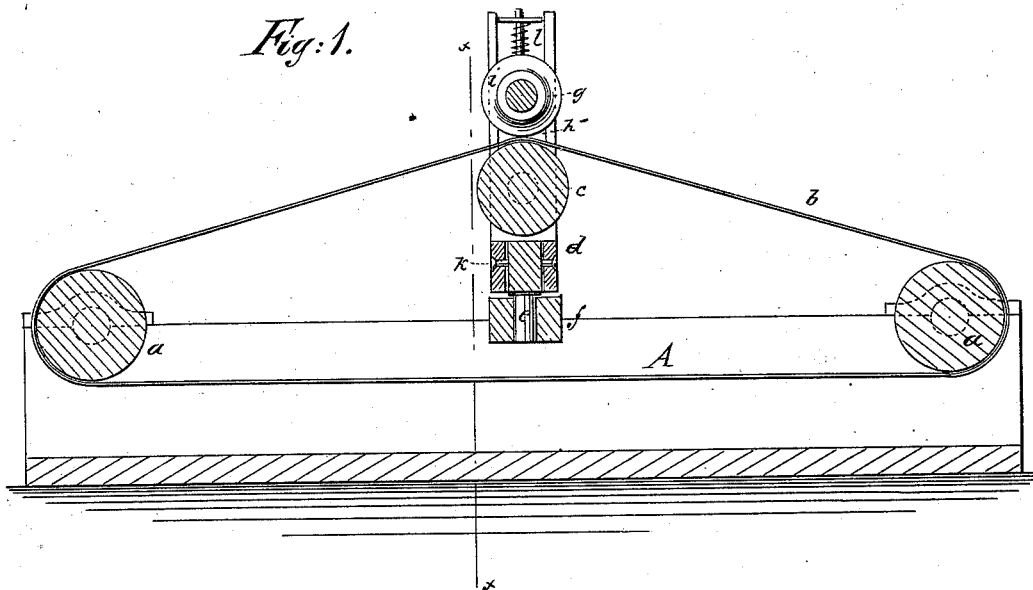


J. PEASLEE.  
Felt-Guide for Paper-Making Machines.  
No. 216,696.      Patented June 17, 1879.



WITNESSES:  
*Chas. Nida.*  
*C. Sedgwick*

INVENTOR:  
*J. Peaslee*  
BY *Mumford*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JACOB PEASLEE, OF ASHLAND, NEW HAMPSHIRE.

## IMPROVEMENT IN FELT-GUIDES FOR PAPER-MAKING MACHINES.

Specification forming part of Letters Patent No. **216,696**, dated June 17, 1879; application filed January 16, 1879.

*To all whom it may concern:*

Be it known that I, JACOB PEASLEE, of Ashland, in the county of Grafton and State of New Hampshire, have invented a new and Improved Felt-Guide for Paper-Making Machines, of which the following is a specification.

My invention relates to guides for the felts of paper-making, leather, and straw-board machines, whether wet or dry felts, and also for the wires of the Fourdrinier machine; and the invention consists in an upper and lower roller mounted upon a pivoted frame, the upper roller having conical pressure-surfaces, that act, in connection with the movement of the pivoted frame, to retain the felt in a central position. The guide is adjustable for felts of different widths.

In the accompanying drawings, Figure 1 is a vertical longitudinal section of a felt-bed having my guide applied thereto. Fig. 2 is a cross-section on line *x x*.

Similar letters of reference indicate corresponding parts.

*A* is the bed; *a a*, the end rollers, over which the felt *b* runs. The center roll, *c*, for the felt is journaled in a frame, *d*, that is pivoted on a pin, *e*, that passes through the center cross-bar, *f*. This construction permits horizontal swinging motion of frame *d*; and to reduce friction, the bar *f* is beveled at each side of pin *e*, as shown.

Above roll *c* is the guide-roll *g*, journaled on frame *e* in sliding boxes *h*, which are fitted with spiral springs *l*, for retaining the roll *g* upon the felt with spring-pressure, which should be rendered adjustable.

The roll *g* consists of a shaft carrying conical bosses *i*, that are secured adjustably at opposite ends of the shaft, and with their larger ends outward, so that their inclined surface will bear upon the edges of felt *b* and the pulp will have room to pass beneath.

The standards of frame *e* are connected to the

horizontal bar by mortise-and-tenon joints, secured by screws *k* passing through slots, which permit frame *e* to be lengthened or shortened for adaptation to machines of different widths.

The described construction permits the adjustment of the guide for felts of various widths, and in case of shrinking in a new felt the conical bosses *i* can be set up accordingly.

In operation, the guide will be self-acting to retain the felt in the center of the rolls, and prevent its becoming injured by running off the side.

The action of the conical pressure-surfaces will be to swing frame *e* to an inclined position when the felt has any tendency to either side, and prevent the felt from running off.

This invention will save the labor of an attendant heretofore required to watch the felts and adjust the guide by hand, and also permits the use of a much narrower felt than heretofore used.

The rolls may be made of wood, iron, or other suitable material. I do not limit myself in that particular, nor to the application of my invention to any special machine. It may be applied to guide the wire of a Fourdrinier paper-machine and for wet or dry felts.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a paper or straw-board machine, the combination, with the wire or felt, of the rolls *c* and *g* and pivoted frame *e*, the roll *g* being provided with conical bosses *i*, substantially as described and shown, and for the purpose set forth.

2. In a paper-making machine, the combination, with the guide-rolls *c* and *g*, of the swinging frame *e*, that is adjustable in length, substantially as and for the purposes specified.

JACOB PEASLEE.

Witnesses:

ANDREW DOOLY,  
B. B. WORTHEN.