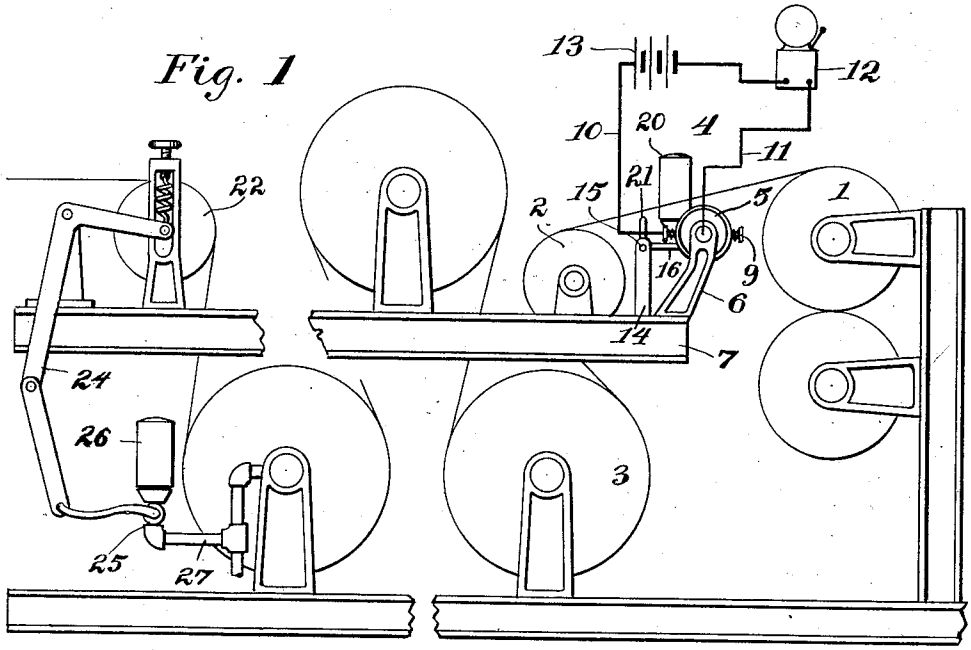
W. WESCOTT.

ALARM FOR PAPER MAKING MACHINES.

APPLICATION FILED SEPT. 23, 1914.

1,190,053. Patented July 4, 1916.

Fig. 1



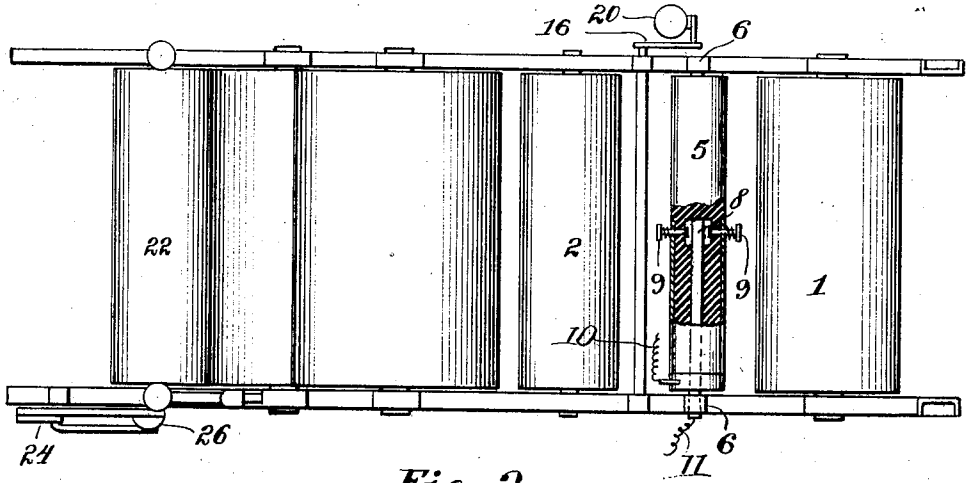


Fig. 2

Witnesses

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WILLIAM WESCOTT, OF WATERTOWN, NEW YORK.

ALARM FOR PAPER-MAKING MACHINES.

1,190,053. Specification of Letters Patent. Patented July 4, 1916.

Application filed September 23, 1914. Serial No. 863,169.

To all whom it may concern:

Be it known that I, WILLIAM WESCOTT, a citizen of the United States, residing at Watertown, in the county of Jefferson and State of New York, have invented new and useful Improvements in Alarms for Paper-Making Machines, of which the following is a specification.

The invention relates to an improved alarm for paper making machines designed with a view to automatically indicating a break in the paper in order to prevent damage and loss of material incident to the failure to be advised of the break at once.

The main object of the present invention is the provision of automatically controlled audible alarms arranged adjacent the first drier and beyond the last drier, the unbroken condition of the paper web maintaining these alarms inactive, the weight of the web when broken serving to permit actuation of the alarms to indicate such condition.

The invention in the preferred form of details will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a view in elevation illustrating the improved alarm. Fig. 2 is a plan view.

In carrying out the present invention, I provide between the final press roll 1 and the guide roll 2 leading to the first drier roll 3 an alarm mechanism designated generally by 4.

The alarm mechanism includes a positively driven roller 5 mounted in supports 6 rising from the drier frame 7. A contact block 8 is mounted in the roller and push contact members 9 are slidably mounted in the roller for rotary movement therewith, being normally held projected beyond the surface of the roller and free of engagement with the contact 8. The contact 8 and both contacts 9 form respective terminals of the alarm circuit including conductors 10 and 11 which lead to any suitable point and include an audible alarm such as a bell 12 and a source of energy such as a battery 13.

In connection with the electric alarm I also mount a fluid pressure alarm adjacent the roller 5. The fluid pressure alarm comprises supports 14 rising from the drier frame 7, in which is supported a shaft 15 having a crank 16 at one end thereof, which crank is connected to the valve lever 17 which controls a valve 18 in the steam pipe 19 leading from the drier roll, the terminal of the pipe being provided with a whistle or other similar alarm 20. Secured upon the shaft 15 is an inverted U-shaped frame 21, the cross bar of which forms the operative support for the paper.

The described alarms are arranged between the press and the first drier, it being understood that when the paper is passing properly from the final press roll to the guide roll 2, it is supported above and wholly free from engagement with either of the contacts 9 or the cross bar 21.

In the use of the alarm mechanism, it will be obvious that should the paper break in passing from the final press roll to the first drier, the weight of the paper falling on the roll 5 and on the cross bar 21 will actuate both alarms at this end of the machine. If the break occurs on the final or delivery end of the drier, pressure of the paper on the roll 22 is relieved, whereupon the roll is elevated by the spring bearings and the valve 25 opened to sound the alarm 26.

What is claimed is:—

An alarm for paper making machines arranged intermediate the final press roller and the initial drier roller, said alarm including a roller arranged below the path of travel of the unbroken paper web, an alarm circuit including an alarm, and normally spaced contacts included in said circuit and carried by the roller, one of said contacts being movable to be influenced by the paper web in the event of breakage of the same between the press roll and drier roll.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM WESCOTT.

Witnesses:

PHILIP S. SLATE,

WM. SCOTT.