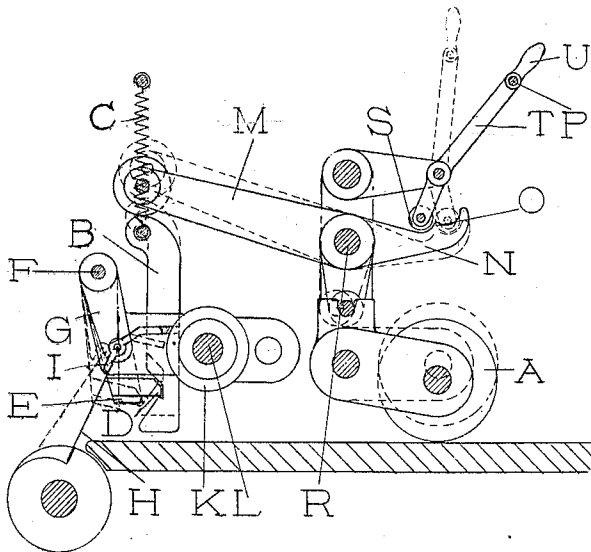


1,064,938.



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UNITED STATES PATENT OFFICE.

GEORG SPIESS, OF LEIPZIG-REUDNITZ, GERMANY.

PAPER-SHEET-FEEDING MACHINE.

1,064,938.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed May 22, 1912. Serial No. 698,999.

To all whom it may concern:

Be it known that I, GEORG SPIESS, a subject of the Emperor of Germany, residing at 45 Rathausstrasse, Leipzig-Reudnitz, Germany, have invented certain new and useful Improvements in Paper-Sheet-Feeding Machines, of which the following is a specification.

In printing presses, folding machines and the like, sheet feeding mechanism is usually employed whereby the sheets are automatically fed to the machine. In the event of an interruption or disturbance occurring in such machines in order to prevent the sheets from accumulating and causing obstructions, the sheet feeding mechanism has to be thrown out of action whereby rapidly rotating and relatively heavy parts such as the combing rolls are ultimately brought to a complete standstill. In re-starting the sheet feeding mechanism such heavy parts have obviously to be brought again to their required rotary speed and this cannot be effected without detriment to the working of the machine.

Now according to the present invention the above draw-backs are obviated by the provision of a device controlled by the attendant and adapted to so coöperate with the lever operating the combing roll that by the actuation of the device the combing roll is tripped to and held in its highest position while the remaining parts of the sheet feeding mechanism and also the combing roll continue to operate at their normal speed and thus are always held in readiness for the working.

A constructional form of a device according to the present invention is shown by way of example in the accompanying drawing which shows the lateral elevation of a sheet feeding mechanism provided with the new controlling device.

The sheet feeding mechanism is substantially of the construction shown in my prior U. S. Patent 967077 and consists of a vertically movable slider B which is under the action of a spring C and in opposition to this spring is held in its lowest position by a lug D arranged on a rocker E. On the axis F of this rocker is mounted an arm G pivoted to which is the usual trip lever H.

As the sheet is fed forward by the combing roll A it lifts the trip lever H which thereby causes an arm I to be brought into engagement with a friction disk K secured to and driven by the constantly rotating shaft L. By this engagement the arm L and with it the arm G as well as the arm E are forced back so as to free the slider B which is then drawn up by its spring C thereby so actuating a lever mechanism M N as to cause the combing roll A to be raised out of engagement, with the sheet into the position indicated in dotted lines.

My new device consists of a double armed lever T which is used to act on the shank N of the lever M and to force the arm N into the dotted line position shown in which the combing roll is raised out of action. To this end the end of the lever arm N is provided with notches O adapted to coöperate with the roller arranged on the respective end of the lever T.

Inasmuch as it is often desirable to adjust a series of sheet-feeding devices simultaneously the levers T can be connected by a common rod P attached to which is a handle U. By rocking the whole of the levers T into the dotted lines position shown the combing rolls of all sheet feeding mechanisms are thrown out of action without affecting the continued working of the individual sheet feeding devices.

What I claim and desire to secure by Letters Patent is:—

In the herein described sheet feeding mechanism, the combination with the combing roll and the carrier thereof, of a notched rocking carrier for said combing roll, a manually operated double armed lever, one arm of which carries a roll freely resting in the notch of said carrier and which arm is adapted on its manipulation to swing the said carrier so as to release the combing roll without affecting the continuous operation of the other parts of the mechanism.

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

GEORG SPIESS.

Witnesses:

RUDOLPH FRICKE,
EDWARD SCHROEDER.