

(No Model.)

G. SAGUE.
PAPER FEEDING MACHINE.

No. 529,414.

Patented Nov. 20, 1894.

Fig. 1.

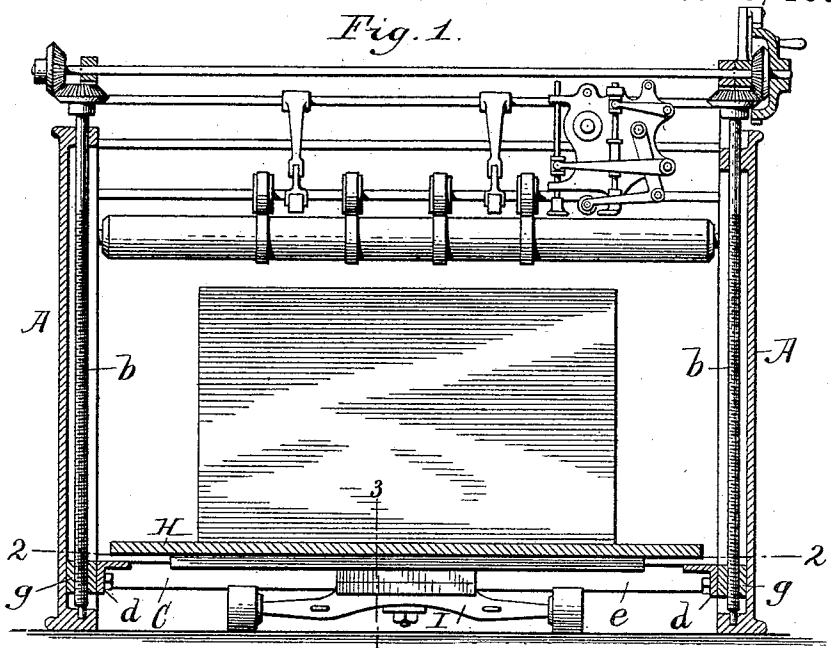


Fig. 2.

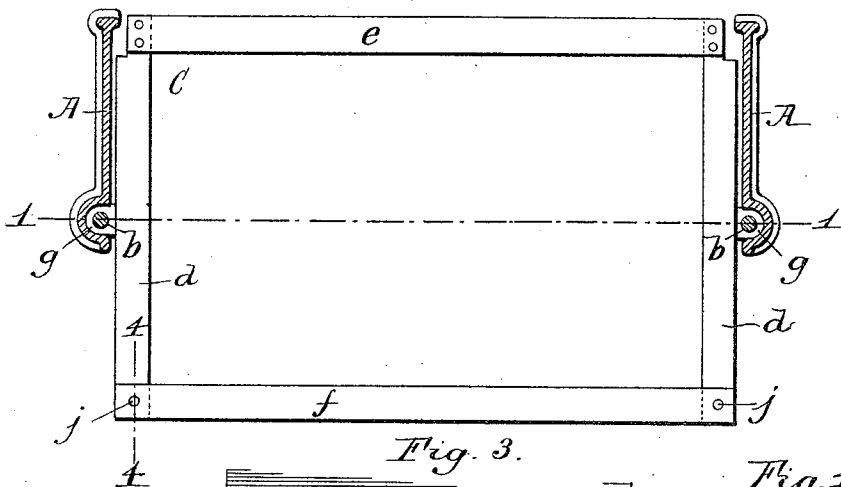


Fig. 3.

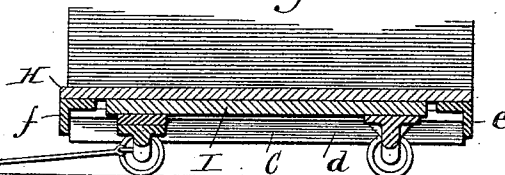


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE SAGUE, OF POUGHKEEPSIE, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE ECONOMIC MACHINE COMPANY, OF NEW YORK.

PAPER-FEEDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 529,414, dated November 20, 1894.

Application filed May 7, 1894. Serial No. 510,270. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SAGUE, a citizen of the United States, residing at Poughkeepsie, in the county of Dutchess and State of New York, have invented a new and useful Improvement in Paper-Feeders, of which the following is a specification.

This invention relates to that class of paper feeders by which sheets of paper are automatically fed, one after another, from the top of a pile to a folding, ruling or other machine, and in which such pile rests upon a feed table which is slowly raised automatically as the paper is fed off. A machine of this general character is shown and described for instance in Letters Patent No. 516,325, granted March 13, 1894, to myself and others. When such a paper feeder is used for feeding printed sheets to a folding machine, the pile of printed sheets, which have been deposited by the fly of the printing press, must be removed from the printing press and placed upon the feed table of the paper feeder, which is a matter of some difficulty as the pile is high and heavy, and cannot be easily handled.

The object of my present invention is to construct the feed table of the paper feeder in such a way that the pile of paper can be more conveniently placed upon the same than heretofore.

In the accompanying drawings:—Figure 1 is a vertical cross section through the feed table of a paper feeder, the section being taken in line 1—1, Fig. 2. Fig. 2 is a horizontal section in line 2—2, Fig. 1. Fig. 3 is a vertical longitudinal section in line 3—3, Fig. 1. Fig. 4 is a vertical longitudinal section of one of the front corners of the feed table, in line 4—4, Fig. 2, on an enlarged scale.

Like letters of reference refer to like parts in the several figures.

A A represent the side frames of the paper feeder, which latter may be of any ordinary or suitable construction.

b represents the vertical feed screws which are arranged in the usual manner in the side frames A, and which are operated by well known mechanism, so as to raise and lower the feed table C. The latter, instead of being a solid table or board, as heretofore, is an open frame composed of two side bars d d, a rear

cross bar e which is securely connected to the rear ends of the side bars, and a front cross bar f which is removably connected with the front ends of the side bars. The side bars are provided with the usual screw nuts g with which the feed screws b engage.

H represents a board upon which the pile of sheets is placed by the fly of the printing press, or in any other suitable way. I represents a wheeled truck, upon which this board is placed so as to receive the pile of paper. The paper is deposited upon this board while the latter rests upon the truck. When a pile of the desired height has been deposited the truck, with the board and pile resting thereon, is moved from the printing press, or other machine or place where the piling has been effected, to the paper feeder. The feed table or frame of the paper feeder is lowered to such a position that it stands below the height at which the board, upon which the pile rests, is supported by the truck. The front cross bar of the feed table is then removed and the truck is moved into the space between the side bars of the feed table until the rear portion of the board which projects beyond the rear end of the truck, extends over the rear cross bar of the feed table. The board on which the pile rests also projects at the sides and front beyond the truck, and the length of the truck is such that the removable front cross bar of the feed table or frame can be placed on the front ends of the side bars and below the projecting front portion of the board on which the pile rests while the truck stands in the open space of the feed frame, as represented in Fig. 3. The feed frame or table is then raised by means of the feed screws so as to clear the truck, when the latter can be removed.

The front ends of the side bars are preferably provided with upwardly projecting pins j which enter holes in the front cross bar, and whereby the latter is removably held on the side bars, but any other suitable connecting device may be employed for the purpose.

The bars of the feed table or frame are preferably made of angle-iron, as shown, in order to combine lightness with strength.

This improved construction of the feed table does away with the necessity of handling

or disturbing the pile because it permits the pile to be placed in the feeder while resting upon the same board upon which it was deposited by the fly of the printing press.

5 I claim as my invention—

1. In a paper feeder, the combination with the stationary frame, of a vertically movable feed table consisting of an open horizontal supporting frame composed of side bars, a rear
10 cross bar and a removable front cross bar, substantially as set forth.

2. The combination with the side frames and the upright feed screws of a paper feeder,

of a feed table composed of side bars provided with screw nuts with which said feed screws
15 engage, a rear cross bar connecting the rear portions of said side bars, and a front cross bar removably connected with the front portions of said side bars, substantially as set forth.
20

Witness my hand this 28th day of April, 1894.

GEORGE SAGUE.

Witnesses:

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