C. Hofmann.
Paper Mach.

No. 89,766. Patented May 4, 1869.

Fig. 1

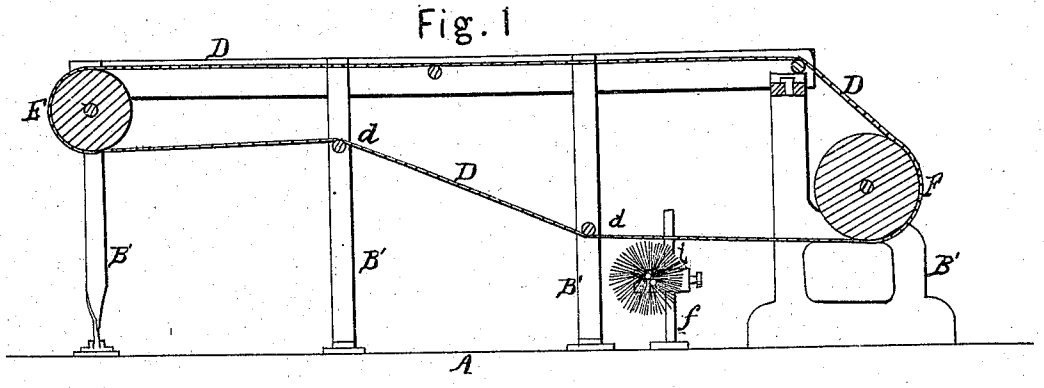
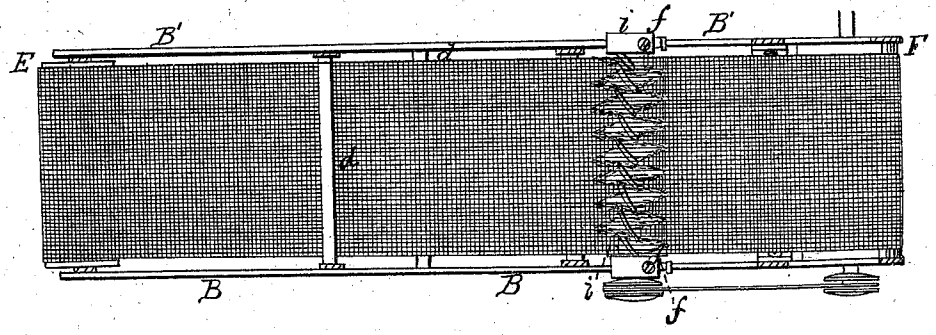


Fig. 2.



Witnesses

Wm. A. Steel

Jno. B. Harding

Inventor

C. Hofmann

by his Attys

St. Stevens.

United States Patent Office.

CARL HOFMANN, OF ELKTON, MARYLAND.

Letters Patent No. 89,766, *dated May* 4, 1869.

IMPROVEMENT IN FOURDRINIER PAPER-MACHINES.

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

To all whom it may concern:

Be it known that I, CARL HOFMANN, of Elkton, Cecil county, Maryland, have invented an Improvement in Fourdrinier Paper-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists in the combination, substantially as described hereafter, of one or more revolving brushes with the wire-cloth apron of a Fourdrinier paper-machine, so that the said apron may be cleared of foreign matter during its operation.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a longitudinal section of sufficient of a Fourdrinier paper-machine to illustrate my improvement.

Figure 2, a plan view of fig. 1.

A represents part of the base of the machine, to which are secured the opposite frames B and B'.

D is the usual endless apron, of wire gauze, passing over the breast-roller E, thence horizontally over a series of small rollers on the frame of the machine, round the couch-roller F, and over the rollers *d d*, to the said breast-roller E.

It will be needless to describe the operation of this wire-gauze apron, as it is common to all Fourdrinier paper-machines. It will suffice to remark here that the meshes frequently become choked with foreign matter, to dispose of which is the special object of my improvement. This I will now proceed to describe.

To the base, A, of the machine, I secure two standards, *f f*, each carrying an adjustable bearing, *i*, for the spindle *h*, which is arranged at right angles to and beneath the endless apron D, and which carries a cylindrical brush, the latter being caused to revolve rapidly in the direction contrary to the course pursued by the apron, and in contact with the under side of the same, from which is thus removed the objectionable foreign matter.

The bearing *i* may be adjusted on the standards *f*, to any desired point, so as to insure the efficient action of the brush on the wire cloth.

More than one of these brushes may be used to advantage, care being taken that each brush is situated near one of the rollers which guide the under side of the apron.

Without confining myself to the specific arrangement of parts herein described,

I claim as my invention, and desire to secure by Letters Patent—

The combination, substantially as described, of one or more revolving brushes, with the wire-cloth apron of a Fourdrinier paper-machine, for the purpose herein set forth.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

CARL HOFMANN.

Witnesses:
JOHN WHITE,
LOUIS BOSWELL.