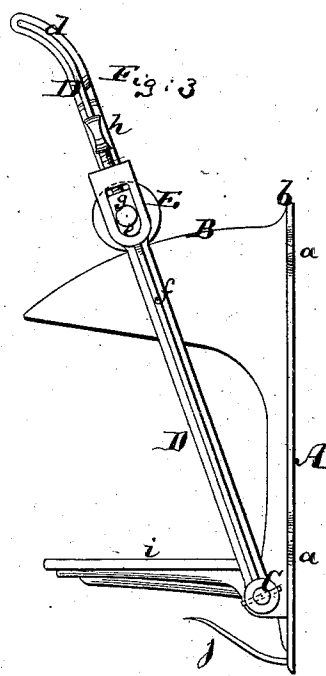
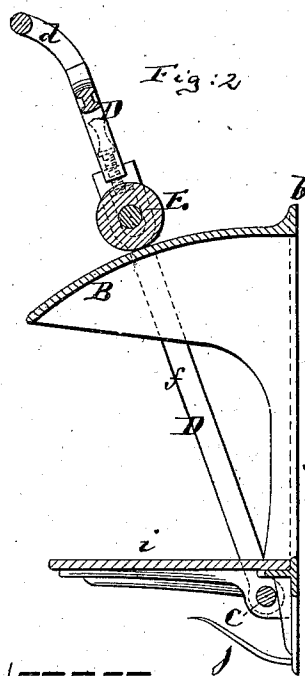
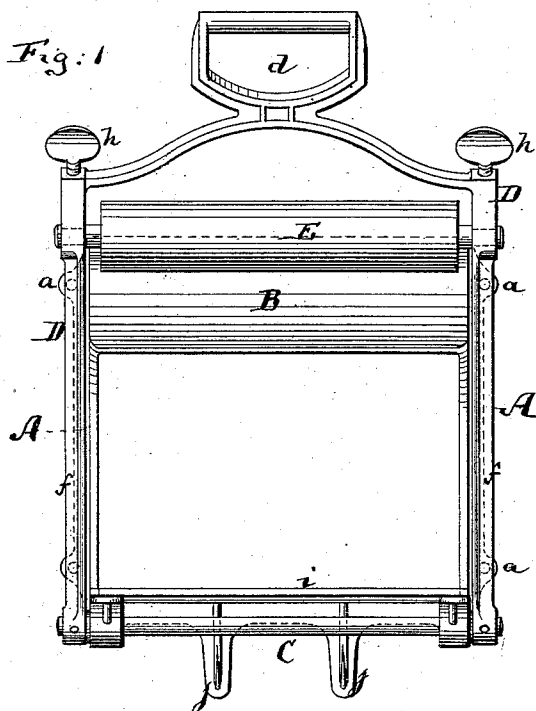


(No Model.)

H. VAN HOEVENBERGH.
Copying Apparatus.

No. 232,425.

Patented Sept. 21, 1880.



WITNESSES.
H. P. Parker.
Geo. J. Giesler

INVENTOR.
Henry Van Hoevenberg
by his attorney
Ans. Brieseman

UNITED STATES PATENT OFFICE.

HENRY VAN HOEVENBERGH, OF NEW YORK, N. Y.

COPYING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 232,425, dated September 21, 1880.

Application filed August 13, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY VAN HOEVENBERGH, of New York, in the county and State of New York, have invented a new and Improved Copying Apparatus, of which the following is a specification.

Figure 1 is a front elevation of my improved copying apparatus. Fig. 2 is a vertical cross-section of the same; Fig. 3, a side view thereof.

This invention relates to a new machine for taking impressions from paper containing written or other matter that is applied with copying-ink.

The invention consists of the novel combination of a segmental table with a vibrating frame carrying an adjustable yielding pressure-roller.

The invention also consists of other details of improvement, hereinafter more fully described.

In the drawings, A represents the supporting-frame of my improved copying apparatus. Said frame is either made with supporting-legs, to be placed on a floor or platform, or is made with ears or flanges *a a*, perforated to admit bolts or screws wherewith to fasten it to and against a wall or post. The frame A carries an arched or segmental table, B, and an upwardly-projecting lip or stop, *b*, at or near one end of said table. The arc of the table B has for its center the axis of a shaft or spindle, C, hung in the frame A, as shown.

To the shaft or spindle C is secured a frame, D, that straddles the table B, and is provided with a handle, *d*, so that it can be conveniently rocked on or with the spindle C.

E is a roller, preferably covered with rubber. The gudgeons of this roller are fitted through slots *e* in the uprights *f* of the frame D, beneath bearing-blocks *g*, that can be adjusted by screws *h*. By means of these screws or equivalent springs the pressure of the roller E upon the table B can be regulated.

A platform, *i*, for holding the copying-paper,

and prongs *jj*, for suspending the freshly-made copy until it dries, are preferably affixed to the frame A, as indicated.

The paper to be copied, and the moistened or otherwise-prepared copying-paper are placed, the one over the other, on the segmental table B, and the frame D is then, by taking hold of the handle *d*, moved on its pivot so as to carry the roller E once over the table and paper. The roller, by its pressure, produces the required copy instantaneously. I thus do away with the cumbersome and laborious apparatus of the ordinary copying-press.

I have shown the apparatus arranged so that the roller E moves over the convex surface of the table B. Many advantages of my invention will, however, be enjoyed by causing the roller to move along the concave side of said table.

The stop *b* limits the stroke of the vibrating frame D in one direction.

I claim—

1. In a copying apparatus, the segmental table B, in combination with the vibrating frame D and pressing-roller E, substantially as herein shown and described.

2. The frame A, having segmental table B and stop *b*, in combination with the vibrating frame D, having handle *d*, and with the roller E, substantially as herein shown and described.

3. The frame A and segmental table B, in combination with frame D, turning on pivot C, and with the roller E, blocks *g*, and adjusting-screws *h*, substantially as herein shown and described.

4. The combination of the segmental table B, platform *i*, and prongs *j* with the vibrating frame D, roller E, and handle *d*, substantially as herein shown and described.

HENRY VAN HOEVENBERGH.

Witnesses:

SAML. R. BETTS,

WILLIAM H. C. SMITH.