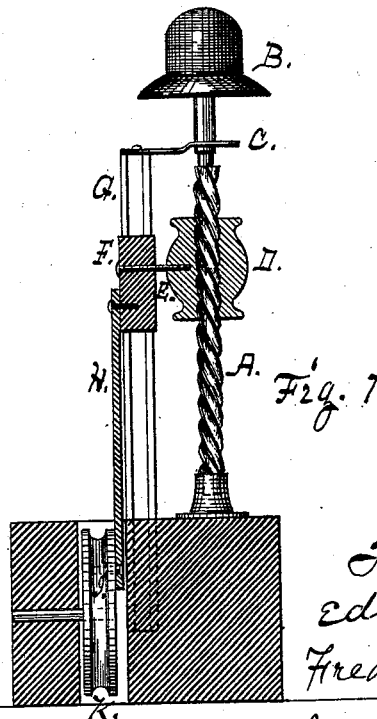
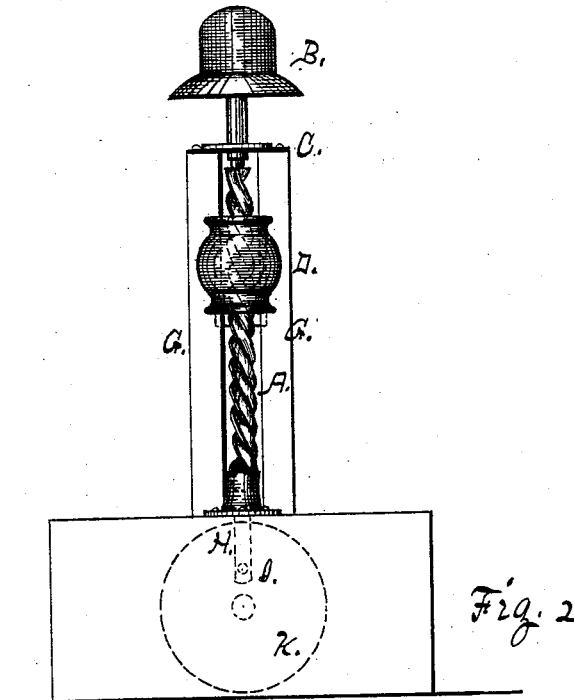


E. B. WHITING & F. E. DAUM.
 Hat-Pouncing Machine.

No. 204,931.

Patented June 18, 1878.



Witness
 Wm H Darling
[Signature]

Inventors
 Edwin B. Whiting
 Fred E. Daum
 By Horace Harris
 Atty

UNITED STATES PATENT OFFICE.

EDWIN B. WHITING AND FREDERICK E. DAUM, OF ORANGE, NEW JERSEY.

IMPROVEMENT IN HAT-POUNCING MACHINES.

Specification forming part of Letters Patent No. **204,931**, dated June 18, 1878; application filed June 3, 1878.

To all whom it may concern:

Be it known that we, EDWIN B. WHITING and FREDERICK E. DAUM, of Orange, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Hat-Pouncing Machines, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation, partly in section; Fig. 2, a rear elevation.

The object of our invention is in the most simple and inexpensive manner to produce the vibratory motion of a hat-pouncing block.

To accomplish this we employ a shaft, A, having two or more sides—the one illustrated in the drawings has four—and this shaft is twisted into a screw, on the top of which is a hat-pouncing block, B, above a table, C. On this screw-shaft is fitted a slide, D, made to move up and down this shaft by a fixed con-

nection, E, with a cross-head, F. This cross-head slides in the ways G, and is operated by the pitman H, which by the crank-pin I is connected with the driving-wheel K.

Thus it will be seen that the motion of the slide up and down will rotate, right and left, the shaft A, giving the desired reciprocating motion to the hat-block by the use of the very simple and inexpensive mechanism we employ. Therefore,

What we claim as our invention, and desire to secure by Letters Patent, is—

The screw-shaft A having the slide D fitted thereto, in combination with the hat-block B and cross-head F, substantially as and for the purpose specified.

EDWIN B. WHITING.
FREDERICK E. DAUM.

Witnesses:

HORACE HARRIS,
JOSEPH A. ENO.