

J. B. FROST.
REGISTERING-PUNCHES.

No. 177,494.

Patented May 16, 1876.

Fig: 1.

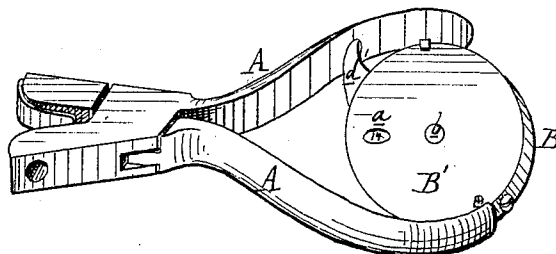


Fig: 2.

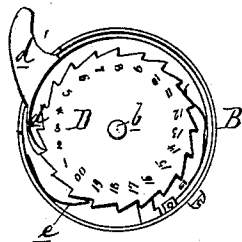


Fig: 3.

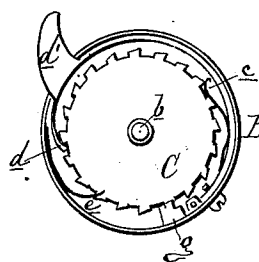


Fig: 4.

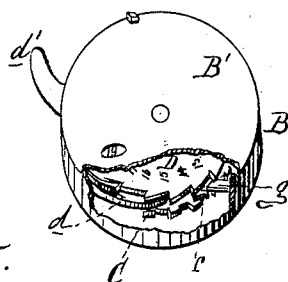


Fig: 5.

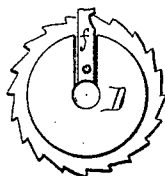
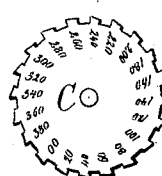


Fig: 6.



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JOHN B. FROST, OF NAPERVILLE, ILLINOIS.

IMPROVEMENT IN REGISTERING-PUNCHES.

Specification forming part of Letters Patent No. **177,494**, dated May 16, 1876; application filed March 6, 1876.

To all whom it may concern:

Be it known that I, JOHN B. FROST, of Naperville, in the county of Du Page and State of Illinois, have invented an Improved Registering-Punch, of which the following is a specification:

The object I have in view is to provide a simple and compact device adapted to be used in combination with a conductor's punch, for registering the number of tickets or fares punched in a strip by him.

The invention consists in the peculiar means for actuating the register-wheels, all as more fully hereinafter explained.

Figure 1 is a perspective view of the punch, looking at it from the "cap" side of case. Fig. 2 is a plan of case with the cap removed. Fig. 3 is a plan of the same, with the first register-wheel removed. Fig. 4 is a perspective view of the register, with a portion of the case broken out to show the interior in part. Fig. 5 is an elevation of the under side of the first wheel, showing the spring-tooth in the back. Fig. 6 is a face view of the second register-wheel.

In the drawing, A represents a punch, such as is ordinarily used by conductors and collectors for punching tickets and fare-strips. To the inner side of one of the handles a cylindrical case, B, is secured, having a removable cap, B', in which a radial slot, *a*, is cut. A similar slot is cut in the bottom of the case, from the center of which a stud, *b*, projects, and on which is sleeved the lower toothed wheel C, against which a light spring, *c*, impinges, to keep it from slipping around. D is the first or top wheel, also sleeved on the stud *b*. With its ratchet-teeth a spring-pawl, *d*, secured to

the wall of the case, may engage, when a finger, *d'*, attached to the pawl-spring, is pushed in by the free arm or handle of the punch. This movement of the pawl is sufficient to rotate the wheel D the distance of one tooth, where it is held by a detent-spring, *e*. In a radial slot in the under side of the wheel D is secured a spring-tooth, *f*, Fig. 5, having a down-turned lip in one corner of the outer end. Once in revolution of the wheel D this spring *f* passes under a bracket, *g*, Figs. 3 and 4, on the inside of the shell, which depresses it so that its lip engages with a tooth of the wheel C, which is carried around by it until freed from the bracket, when the spring flies up and releases the wheel C after carrying the distance of one tooth.

The face of the wheel D is divided off in single numbers up to twenty, visible as they pass in the radius of the slot *a*, while the back or under side is divided off and numbered in multiples of twenty, which are consecutively brought into the radius of the slot in the back plate.

The registering device may be fitted to any form of punch.

What I claim as my invention is—

The case B B', fitted with the central stud *b*, register-wheels C D, springs *c e f*, bracket *g*, and spring-pawl *d d'*, in combination with an actuating-lever, substantially as and for the purpose set forth.

JOHN B. FROST.

Witnesses:

WM. H. LOTZ,
CHARLES SPERBER.