

No. 638,419.

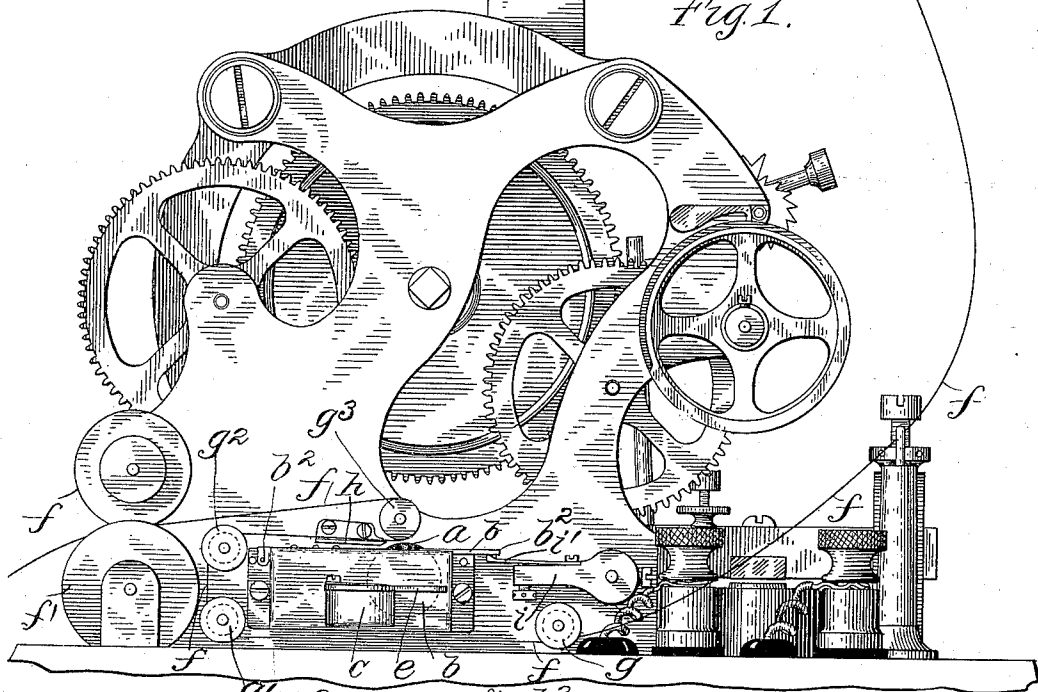
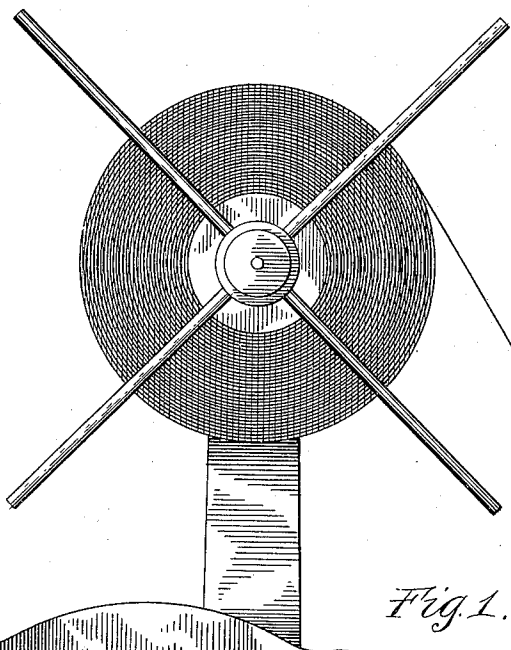
Patented Dec. 5, 1899.

L. E. OEHRING.

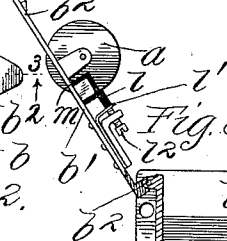
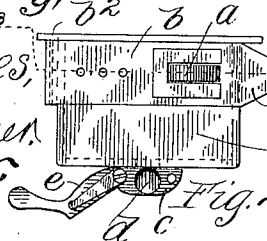
INKING DEVICE FOR TELEGRAPH REGISTERS.

(Application filed Feb. 26, 1898.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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INKING DEVICE FOR TELEGRAPH-REGISTERS.

SPECIFICATION forming part of Letters Patent No. 638,419, dated December 5, 1899.

Application filed February 26, 1898. Serial No. 671,855. (No model.)

To all whom it may concern:

Be it known that I, LOUIS E. OEHRING, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Inking Devices for Telegraph-Registers, (Case No. 3,) of which the following is a full, clear, concise, and exact description.

My invention relates to an inking device for telegraph-registers; and its object is to provide an improved and simplified construction whereby the stylus-wheel may be continuously and uniformly supplied with ink from a suitable stationary receptacle without danger of excessive flow of ink and consequent blotting or blurring of the tape.

The usual method heretofore employed for supplying the stylus-wheel with ink has been to provide an ink roller or wheel with a periphery of felt or other absorbent material saturated with ink, the stylus-wheel pressing against this inked surface while revolving, thus taking up the required amount of ink therefrom. In accordance with my invention the lower portion of the stylus-wheel dips into a stationary reservoir of ink, taking up a small quantity, the superfluous ink being preferably cleaned or wiped off by a suitable pad of felt or other absorbent material, which engages the wheel immediately before its contact with the paper tape. This construction possesses certain advantages over devices of this character at present in use in that the printed mark is more clear cut and definite and the reservoir does not require filling or attention so often as does the absorbent pad of the other style.

In the drawings, which are illustrative of my invention, Figure 1 is a side elevation of a telegraph-register equipped with my improved self-inking stylus-wheel. Fig. 2 is a plan view of the stylus-wheel and ink-reservoir. Fig. 3 is a sectional view taken along line 3 3, Fig. 2.

Similar parts are designated by similar letters of reference throughout the several figures.

The stylus-wheel *a*, preferably of hard rubber, is mounted upon the lid *b'* of the ink-reservoir *b*, said lid being pivoted or hinged at *b²*. At the side of the ink-reservoir is pro-

vided an extension *c*, having a hole *d* therein communicating with the interior of the reservoir, whereby ink may be introduced into the reservoir through said hole. A removable lid *e* serves to normally cover said hole and prevent the admission of dust or dirt. The tape *f* is fed forward in the usual manner, being passed around rollers *g g' g² g³* and between rollers *f f'*. A bracket *h* is provided to support the tape between rollers *g²* and *g³*. The armature-lever of the ordinary signal-receiving electromagnet is connected with a pivoted arm *i*, the end whereof is caused to move up and down as the armature-lever vibrates in response to the electrical signals received by the magnet. Upon the end of the arm *i* an adjustable spring presser-foot *i'* is mounted and serves to engage the extension *b²* of the lid *b'* and communicate the vibrations of the armature-lever thereto. Upon the actuation of the electromagnet the presser-foot *i'* engages the extension *b²* of the lid *b'*, rocking it upon its pivot *b''* and causing the stylus-wheel carried thereon to come in contact with the tape *f*, thereby imprinting an ink-mark thereon. A pad *l*, of felt or other suitable absorbent material, is mounted upon a spring *l'* and is pressed against the periphery of the stylus-wheel by an adjustable screw *l²*. A pad *m* engages each side of the stylus-wheel, the pads *l m* serving to wipe off the superfluous ink from the stylus-wheel, so that the latter may make a clear-cut and well-defined impression upon the tape *f*.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A printing device for telegraph-registers, consisting of an ink-reservoir, an oscillating part *b* hinged to the reservoir, a rotatable stylus-wheel within the reservoir carried by said oscillating part, the lower portion of said stylus-wheel being immersed in the ink and the upper portion thereof projecting outside the reservoir, and means for causing said part *b* to oscillate in response to electrical signals received by the telegraph-register, whereby the stylus-wheel is moved up and down in the ink, and the upper periphery thereof engaged with the tape, substantially as set forth.

2. In a printing-telegraph, the combination

with an ink-reservoir, of a hinged lid there-
for, a stylus-wheel rotatably mounted upon
said hinged lid, the lower part of said stylus-
wheel dipping into the ink within said reser-
5 voir, a signal-receiving electromagnet, and a
vibrating armature associated therewith and
operatively connected with the hinged lid,
whereby the stylus-wheel is intermittently
moved to and fro to engage the tape and reg-
10 ister the telegraphic signals thereon, substan-
tially as set forth.

3. The combination with an ink-reservoir *b*,
of a lid *b'* therefor, a rotatable stylus-wheel
a mounted upon said lid, the lower portion of

said stylus-wheel being adapted to dip into 15
the ink within said reservoir, pads *l m* adapt-
ed to clean or wipe off the superfluous ink
from said stylus-wheel, and a hinged or piv-
otal connection between the lid and reservoir,
whereby the lid may be rocked to bring said 20
stylus-wheel into contact with the tape, sub-
stantially as described.

In witness whereof I hereunto subscribe my
name this 24th day of February, A. D. 1898.

LOUIS E. OEHRING.

Witnesses:

D. W. C. TANNER,

ALBERT LYNN LAWRENCE.