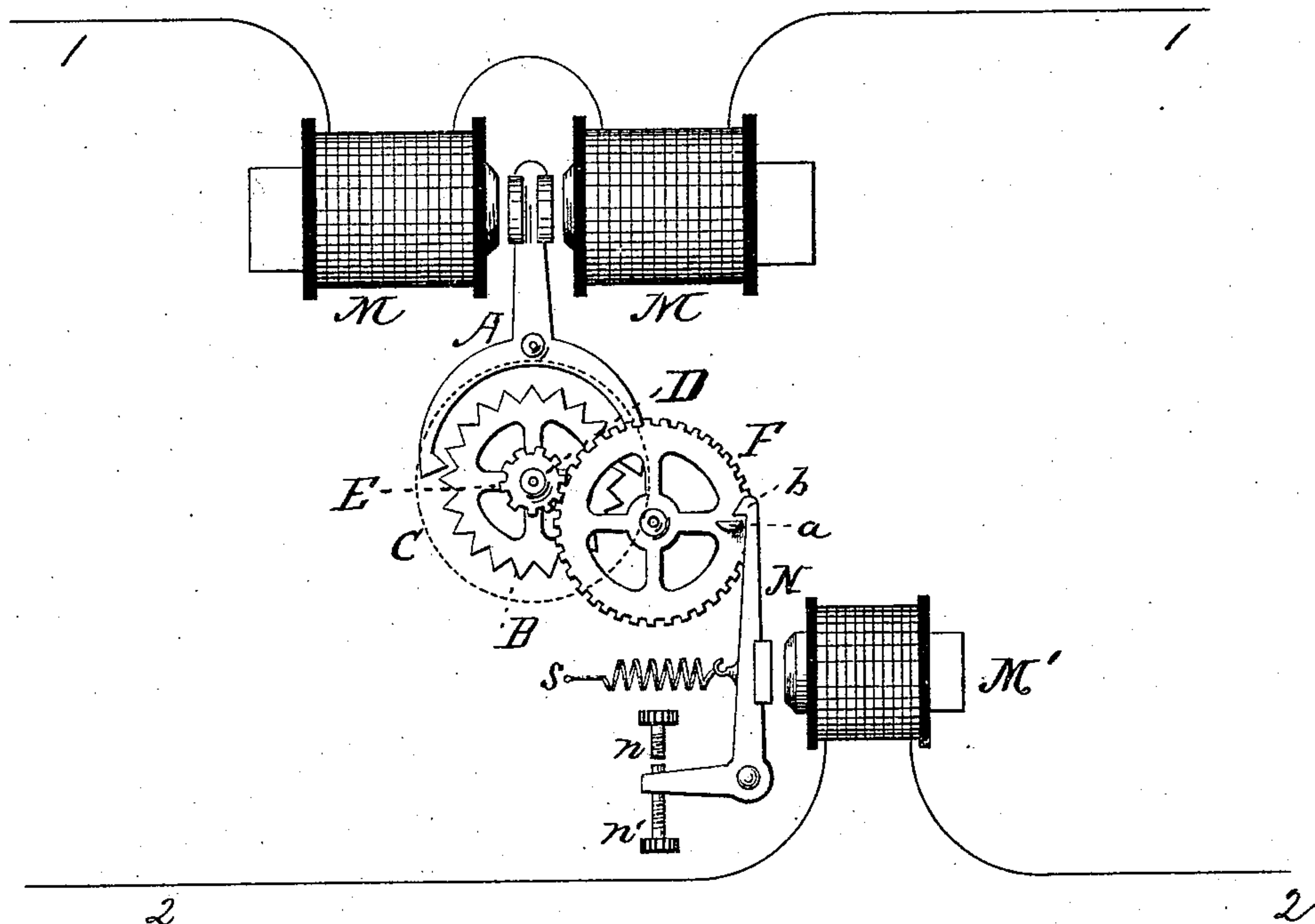


(No Model.)

S. D. FIELD.
PRINTING TELEGRAPH.

No. 287,266.

Patented Oct. 23, 1883.



Attest:

D. D. Mott
W. C. Langan

Inventor:
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per E. F. Melber
Att'y

UNITED STATES PATENT OFFICE.

STEPHEN D. FIELD, OF NEW YORK, N. Y., ASSIGNOR TO THE COMMERCIAL
TELEGRAM COMPANY, OF SAME PLACE.

PRINTING-TELEGRAPH.

SPECIFICATION forming part of Letters Patent No. 287,266, dated October 23, 1883.

Application filed April 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN D. FIELD, of New York, in the county of New York and State of New York, have invented a new and useful Improvement in Printing-Telegraphs; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The object of my invention is to provide a unison mechanism for printing-telegraphs, adapted to be called into action only after several revolutions of the type-wheel. This I accomplish by placing the unison-stop upon a wheel receiving motion from the type-wheel shaft through more or less intermediate gearing, the gearing being so calculated that the wheel carrying the stop shall rotate once only while the type-wheel is revolving several times. This is illustrated in the drawing, in which M M A B constitute the ordinary polarized escapement of a printing-telegraph whose type-wheel, or one of whose type-wheels, is designated by the dotted circle C, mounted on the type-wheel shaft D.

Upon the type-wheel shaft is mounted a pinion, E, meshing into a suitably-supported gear-wheel, F, carrying the unison-stop *a*. As here shown, the pinion has ten teeth and the gear-wheel forty; hence the latter would make one revolution to four of the type-wheel. This relation, however, may be varied so as to cause one revolution of the gear to any desired number of the type-wheel, or a greater number or train or gearing may be interposed between the type-wheel shaft and the unison-stop.

M' is the unison-magnet, placed in the printing-circuit 2 2, (1 1 being the escapement-cir-

cuit.) M' is an independent neutral magnet controlling the unison only, the printing or press magnets not being shown. The armature-lever N of M' plays at its rear end between adjustable stop-screws *n n'*, and is provided with the usual retractor, S. At its other end it is formed into the hook *b*, adapted to catch and hold the unison-stop *a* when the parts are in the proper relative position, and thereby stop the revolution of the type-wheel until *a* and *b* are freed by the attraction of N by M'. M' may be operated in either one of several ways. A constant weak current may be maintained in 2 2, causing M' to normally hold N, unison being effected by a complete break in the circuit; or 2 2 may be normally uncharged, permitting the unison to go into operation whenever the fixed number of revolutions have been made.

Many parts of a printing-telegraph are not shown or described, as they are of usual and well-known description, only such parts being shown and described as are necessary to show my invention.

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

In a printing-telegraph, the combination of a type-wheel or type-wheels, an independent unison-magnet, a unison-stop, and a train of gearing, the unison mechanism being removed from the type-wheel mechanism, but acting thereon through the train of gearing, substantially as set forth.

STEPHEN D. FIELD.

Witnesses:

GEO. W. CASPER,
LUTHER E. SHINN.