Dec. 8, 1925.

1,564,634

F. W. SIDE

RECORDING INSTRUMENT

Filed April 18, 1925

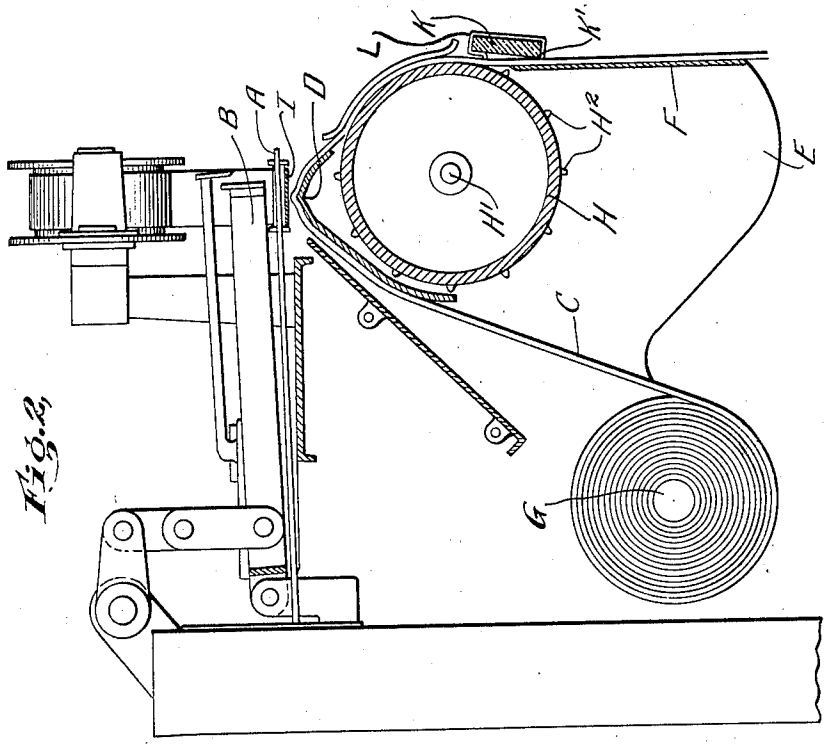


Fig. 2.

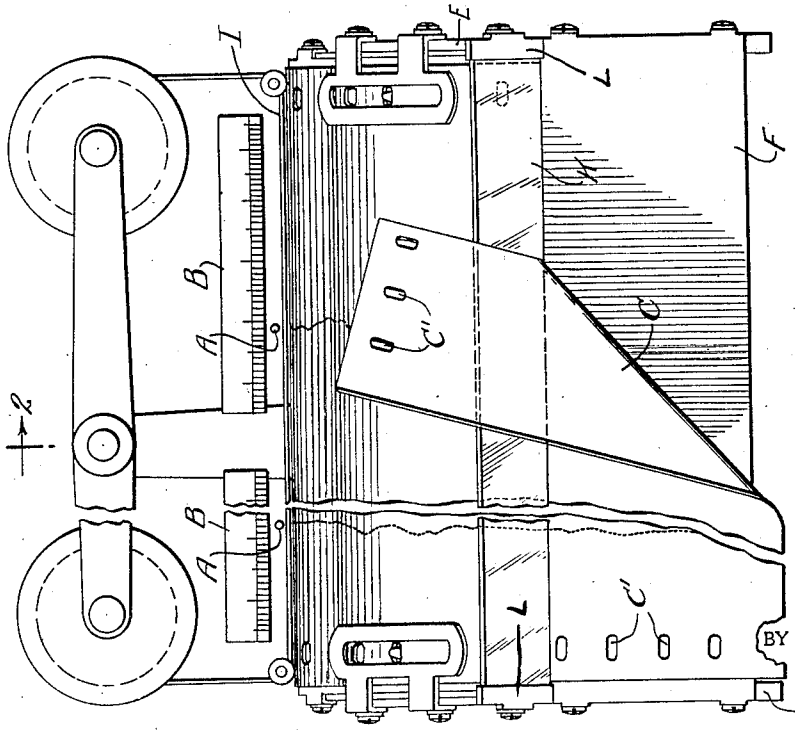


Fig. 1.

INVENTOR

Frederick W. Side

BY John E. Hobbs

ATTORNEY

Patented Dec. 8, 1925. 1,564,634

UNITED STATES PATENT OFFICE.

FREDERICK W. SIDE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE BROWN INSTRUMENT COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

RECORDING INSTRUMENT.

Application filed April 18, 1925. Serial No. 24,072.

To all whom it may concern:

Be it known that I, FREDERICK W. SIDE, a citizen of the United States, and resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Recording Instruments, of which the following is a specification.

My present invention relates to recording instruments such as electric recording pyrometers and the like, in which a record is made on a travelling record strip, and the general object of the invention is to provide such an instrument with simple and effective means for readily severing a portion of the record strip on which a record has been made along a line close to the portion of the strip then in position for engagement by the recording or marking means, and which will not interfere with the operation of the instrument or, preferably, with the visibility of the record, and which does not require any modification in the general construction of the instrument.

The various features of novelty which characterize my invention are pointed out with particularity in the claims annexed to and forming a part of this specification. For a better understanding of the invention, however, and the advantages possessed by it, reference should be had to the accompanying drawings and descriptive matter in which I have illustrated and described a preferred embodiment of the invention.

Of the drawings:

Fig. 1 is a somewhat diagrammatic front elevation of a portion of a recording instrument; and

Fig. 2 is a section on the line 2—2 of Fig. 1.

In the drawings, I have somewhat diagrammatically and conventionally illustrated a duplex electric pyrometer in which my invention is employed and which comprise two meter pointers A, and mechanism including depressors B for intermittently depressing the pointers A and thereby causing their then positions to be marked on a record sheet C which is fed over a straight edge D. The latter forms a part of the instrument frame work which also comprises side members E, and a vertical cross plate F beneath and in front of the straight edge D.

The record sheet C which normally is a paper web or strip, is drawn from a supply roll wound on a spindle G journalled in the side frame members E, by a feed roll H the spindle H′ of which is journalled in the end members E, and which is rotated by a motor (not shown). The feed roll H is formed at its ends with sprocket teeth H^2, which enter previously formed and suitably spaced holes C′ formed in the record strip C at the opposite edges of the latter. The feed roll H has its record strip engaging portion between the straight edge D and the cross plate member F in front of which the record strip C passes in a substantially tangential direction downward from the feed roll. Interposed between the instrument pointers A and the portion of the record strip C above the straight edge D at the time of making a record, is a transfer ribbon I of carbon paper or the like, supported in the usual manner.

To provide for the ready severance of a portion of the record strip which has passed the feed roll H whenever such severance is desired, I have provided the instrument with a severance or tear-off device. The device as shown, comprises a bar or strip K of transparent material which ordinarily is plate glass. The bar K extends transversely across the face of the record sheet immediately in front of the plate F. The glass strip K is supported at its ends by bracket members L which are secured to the instrument frame work as by means of bolts L′ passing through the side plates E. The glass bar K is advantageously set at an angle to the plane of the plate F with its lower inner corner edge K′ in close contact with the record strip C.

When it is desired to tear off the portion of the record strip C below the bar K said portion is grasped and pulled against and laterally of the said portion is grasped and pulled outwardly and laterally to bring it against the plate K whereby the strip C is torn along its line of contact with the edge K′. The bar K thus forms a simple, convenient and practical means for serving portions of the record strip C whenever it may be desirable to remove such portions for filing or examination. The transparency of the bar K possesses the special advantage that the portion of the record strip beneath the bar K is always visible. I have thus provided a tear-off device which is always

in operative position for severing the record sheet, and which does not interfere with the inspection of the record. Another advantage of the invention is that the bar K may be readily mounted as shown, so that the record strip may be severed at a short distance from the straight edge D. This desirably shortens the time period following the making of a record impression on the record strip, which must elapse before it becomes possible to remove the portion of the record strip containing such record impression for filing or examination. The position and form of the tear-off device also permit of the use of the plate F as a platen or support for the depending record strip in making written notations thereon before severance, without requiring any increase in the vertical dimensions of the instrument.

While in accordance with the provisions of the statutes I have illustrated and described the best form of embodiment of my invention now known to me, it will be apparent to those skilled in the art that changes may be made in the form of the apparatus disclosed without departing from the spirit of my invention as set forth in the appended claims, and that in some cases certain features of my invention may be used to advantage without a corresponding use of other features.

Having now described my invention, what I claim as new and desire to secure by Letters Patents, is:

1. In a recording instrument comprising a record marker and means for advancing a record strip past said marker, the improvement which consists in a transparent bar extending transversely across the record strip in advance of said marking means, and providing a severing edge against which the record strip may be severed.

2. In a recording instrument comprising a record marker, and means for supporting a record strip and feeding it past said marker including a supporting surface in advance of said marker, the improvement which consists in a glass bar spaced away from said surface to provide for the passage of the record strip between it and said surface and against the edge of which the portion of the record strip which has passed through said space may be pulled to sever the strip along its line of contact with said edge.

Signed at Philadelphia, in the county of Philadelphia, and State of Pennsylvania, this 16 day of April, A. D. 1925.

FREDERICK W. SIDE.