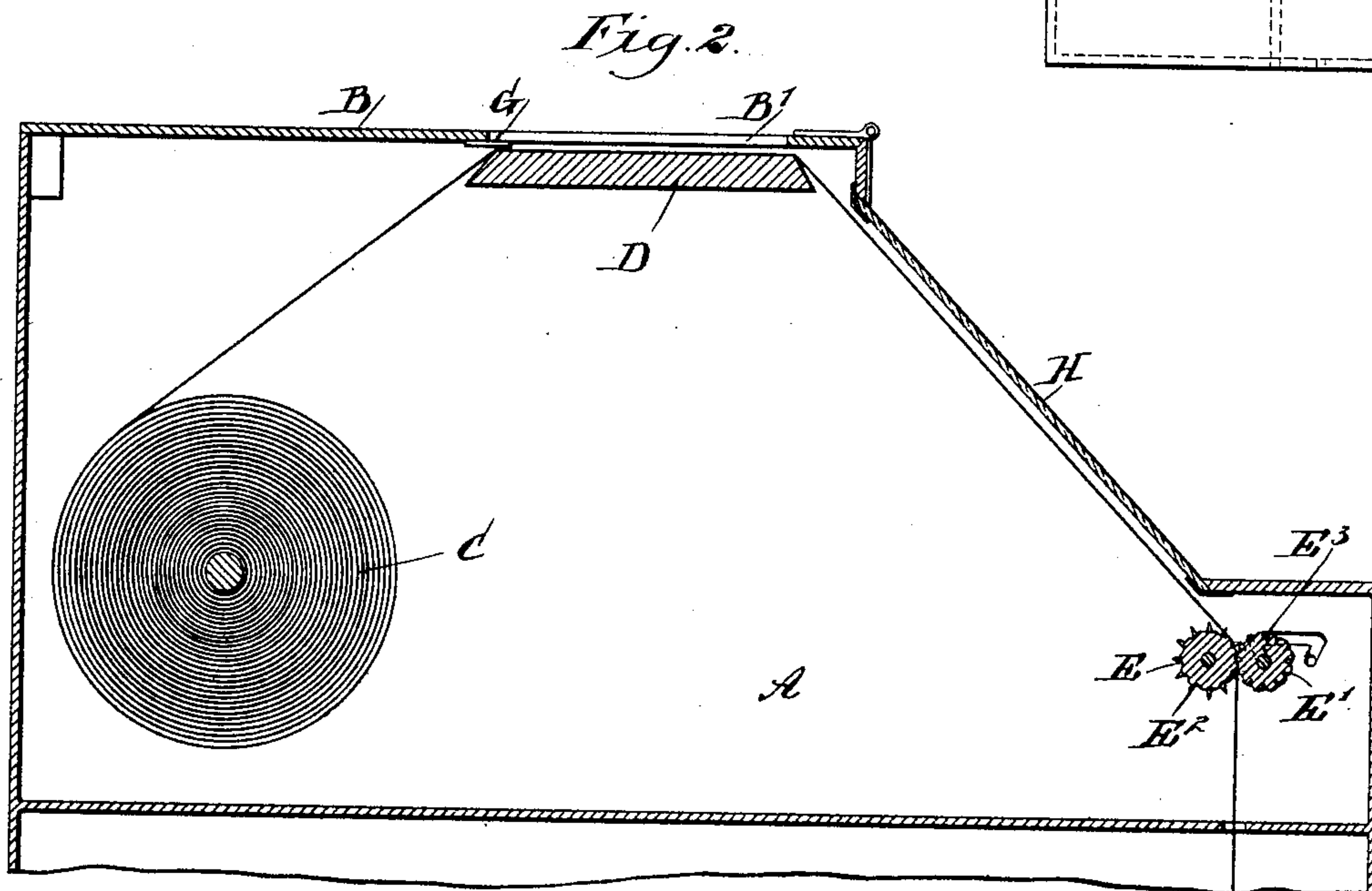
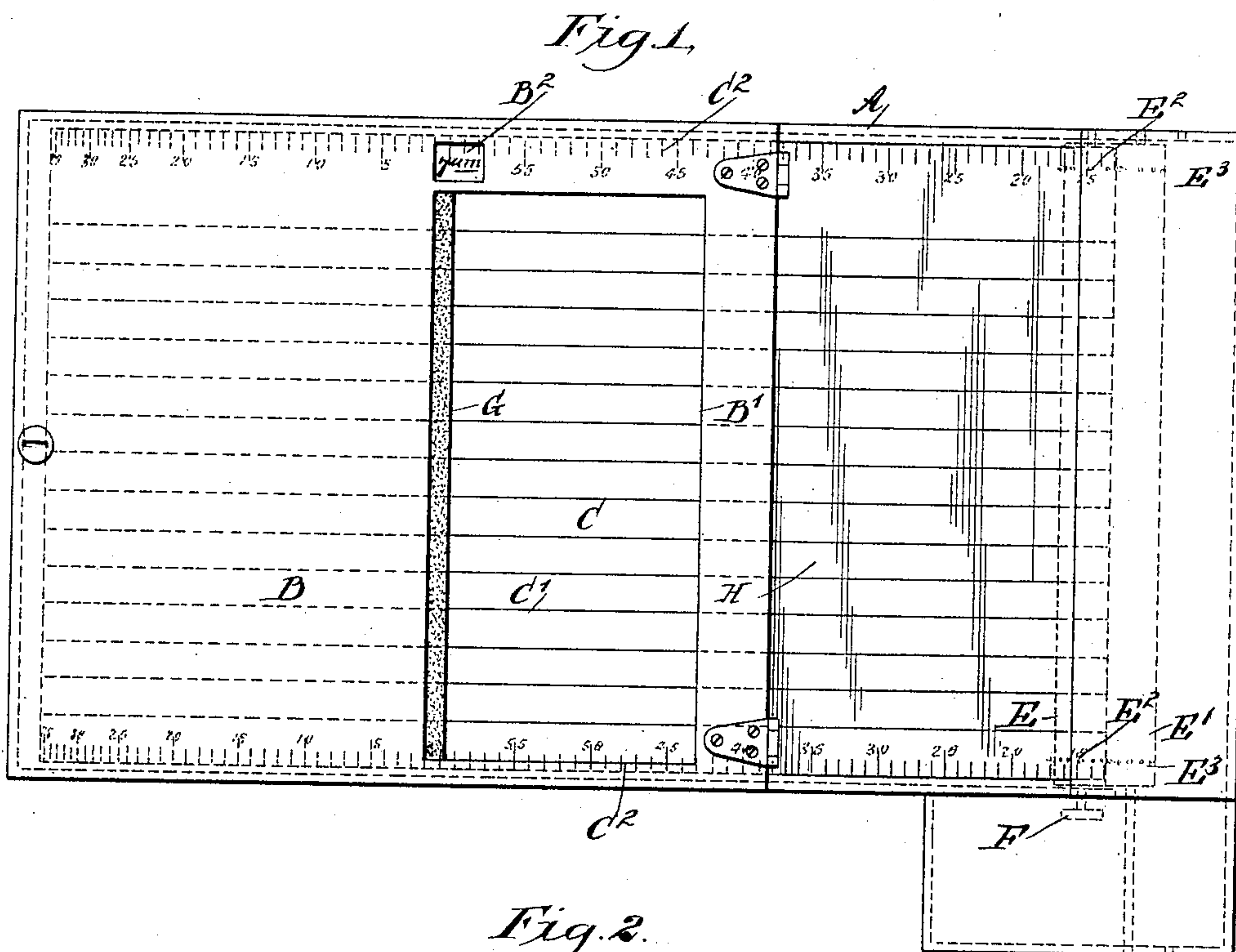


(No Model.)

F. W. COOK, Jr.
TIME RECORDER.

No. 602,305.

Patented Apr. 12, 1898.



WITNESSES:

Edward Thorpe.
Rev. F. Hosmer.

INVENTOR

F. H. Cook Jr.

BY

Mumby
ATTORNEYS.

UNITED STATES PATENT OFFICE.

FREDERICK W. COOK, JR., OF SAN ANTONIO, TEXAS.

TIME-RECORDER.

SPECIFICATION forming part of Letters Patent No. 602,305, dated April 12, 1898.

Application filed September 11, 1897. Serial No. 651,312. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. COOK, Jr., of San Antonio, in the county of Bexar and State of Texas, have invented a new and Improved Time-Recorder, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved time-recorder designed for use in factories, stores, offices, and other like places for recording the arrival and departure of the employees, the apparatus being also serviceable for recording the rounds of a night watchman or the like.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a plan view of the improvement, and Fig. 2 is a sectional side elevation of the same.

The improved time-recorder is mounted in a suitably-constructed casing A, provided with a hinged lid or cover B and adapted to contain a roll of paper C, formed with longitudinal lines C', spaced a suitable distance apart, as is plainly indicated in Fig. 1, and formed near its sides with a graduation C², indicating hours and subdivisions in minutes. The paper C as unwound from the roll is passed upward over a table D, located under the lid or cover B, but supported at the sides of the casing A, the paper passing over the table being visible through an opening B', formed in the cover B to allow an employee to write his name upon one of the lines C' on the paper C. The graduation C² is visible through a slot B² in the cover B next to the left-hand side of the opening B' to indicate the time when the employee wrote his name on the paper C. The paper after leaving the table extends downward in an angular direction to finally pass between two drawing-rollers E E', of which the roller E is connected at its shaft with the minute-arbor of a clockwork mechanism F, of any approved construction and contained in the casing A. Thus when the clockwork mechanism is in operation the roller E is rotated to draw the paper

between the rollers E E' at such speed that during one minute the paper passes a distance between two adjacent graduation-marks of its graduation C², over the table D, and past the slot B².

The rollers E E' are preferably corrugated or ribbed longitudinally to insure a proper drawing of the paper between the said rollers. In addition the roller E is provided with radial pins E², adapted to pass through the paper at the sides thereof, the ends of the pins passing into recesses or openings E³, formed in the other roller E'. Thus a perfect drawing of the paper between the rollers E E' is assured.

On the under side of the cover B is secured a transfer-strip G, of ribbon, paper, or like material and extending transversely into the opening B', in alinement with the slot B², so that when an employee writes his name on one of the lines C' he also makes a mark, by the use of a pencil or like tool, upon the transfer-strip adjacent to his name to cause the transfer-strip to make a mark of a different color and indelible substance upon the sheet of paper to indicate the correct time when the name was written, as the strip G is in alinement with the time-slot B².

A pane of glass H is inserted in the casing A between the rollers E E' and the table D to allow of reading the names as they are written before the paper reaches the rollers E E'.

The paper, after leaving the rollers E E', accumulates in a compartment of the casing A, said compartment being located below the top of the casing containing the works of the recorder, as above referred to, so that the paper can be torn off from the strip contained in the upper part of the casing.

When a roll of paper has run out, a new one may be inserted by opening the lid B.

When it is desired to stop the feeding of the paper without stopping the clockwork mechanism, then the operator can move the roller E' out of mesh with the roller E into a separate bearing, so as to prevent a feeding of the paper by the single roller E.

Now it will be seen that by the arrangement described a very simple device is provided for moving the paper on which the names are written by the employees at a cer-

tain rate of speed to conform with the time and to indicate the correct time of the arrival and departure of the employees.

5 By having the transfer-strip G it is impossible to tamper with the time at which the name was written.

10 It is understood that by the arrangement described the clockwork mechanism directly actuates the drawing-rollers E E' and the rollers draw the paper along and over the table D at a regular speed, so that the signature of the employee is affixed to the paper at the correct time without the use of additional devices. By the employment of the transfer-
15 strip G a mark is obtained on the paper corresponding to the exact time at which the mark is made.

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

25 A time-recorder, comprising a casing formed with an opening and a slot, a fixed table extending under the said opening, a pair of clock-actuated drawing-rollers journaled in the casing for drawing a sheet of paper over

the said table at the casing-opening to permit of writing in a longitudinal direction on the sheet, the latter being provided with a longitudinally-extending graduation indicating hours and subdivisions in minutes, and arranged to appear in the said slot, the said drawing-rollers imparting motion to the sheet in such a manner that the sheet passes a fixed point a distance between two graduation-marks during the interval of one minute, the sheet being also provided with spaced lines for receiving the signatures of the persons at the time indicated by the graduation at the said slot, the lines extending in the direction of the movement of the sheet, and a transfer-strip extending transversely over the sheet at the said opening above the said table and across the said lines, to admit of transferring a mark onto the paper alongside of the corresponding signature, substantially as shown and described. 30 35 40 45

FREDERICK W. COOK, JR.

Witnesses:

WM. OCHSE,

ADOLPH DREISS.