

No. 720,829.

PATENTED FEB. 17, 1903.

P. V. MARKELL.
RECORDING APPARATUS:
APPLICATION FILED APR. 28, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

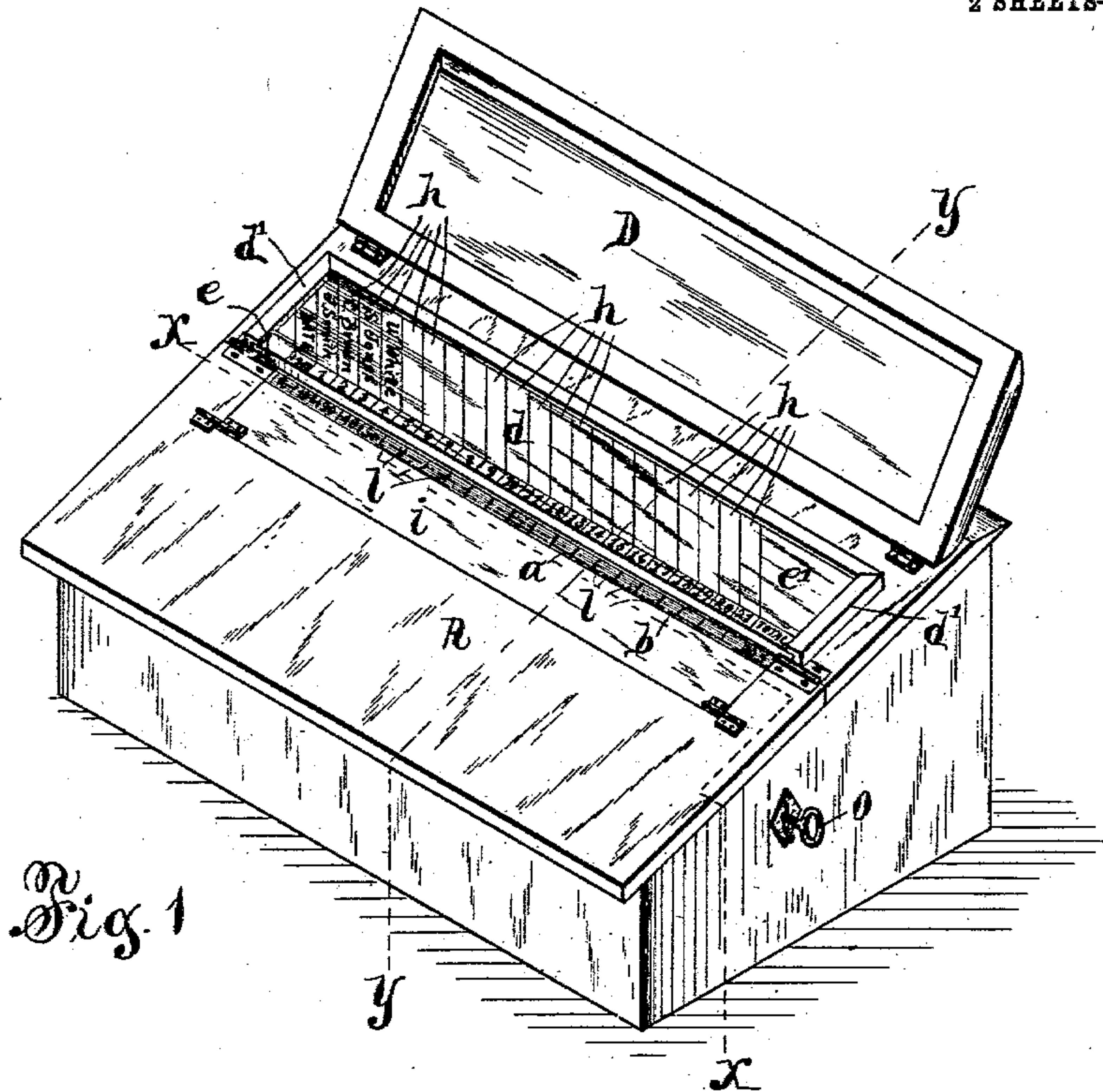


Fig. 1

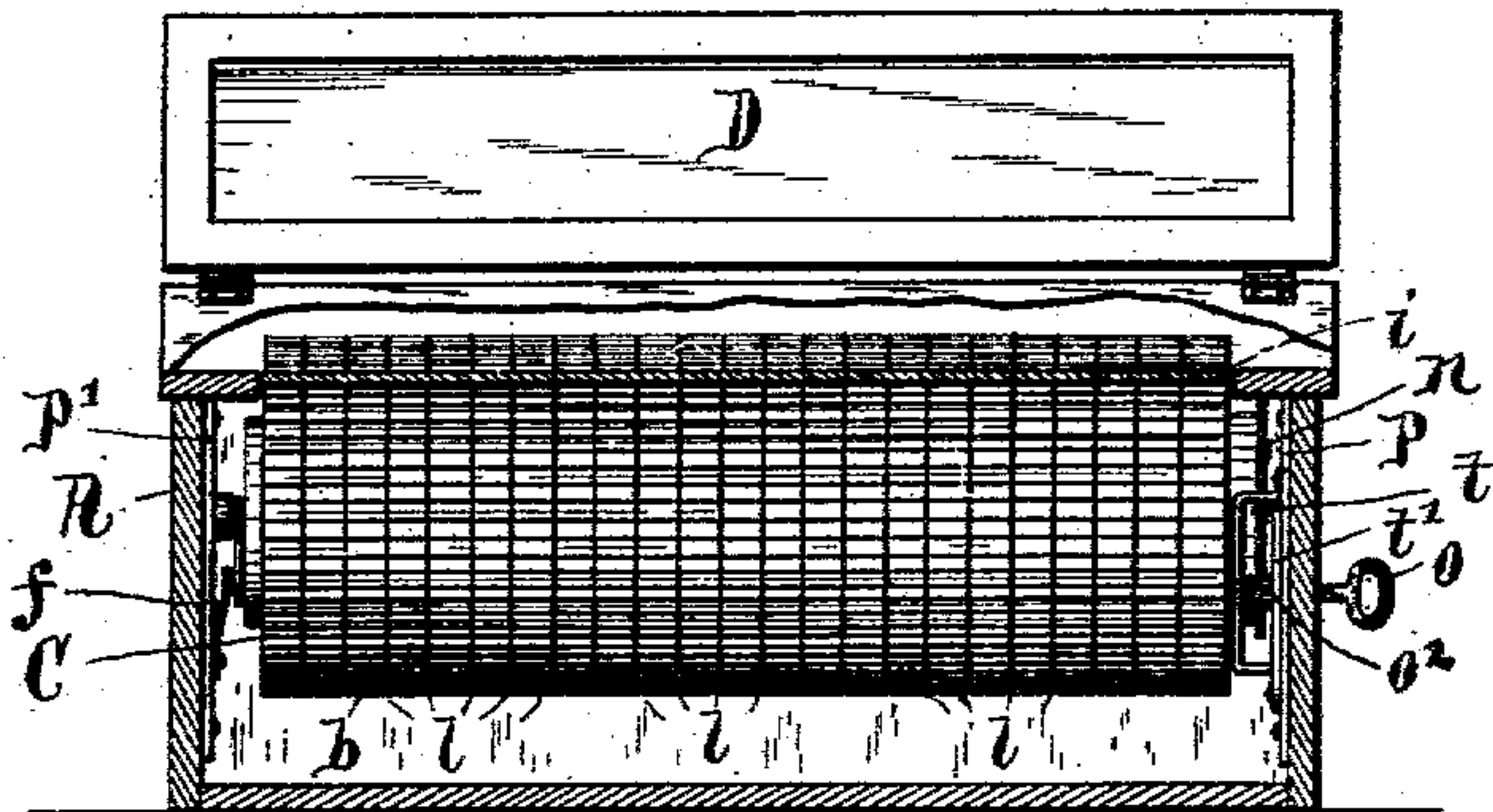


Fig. 2

WITNESSES:

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H. B. Smith.

INVENTOR

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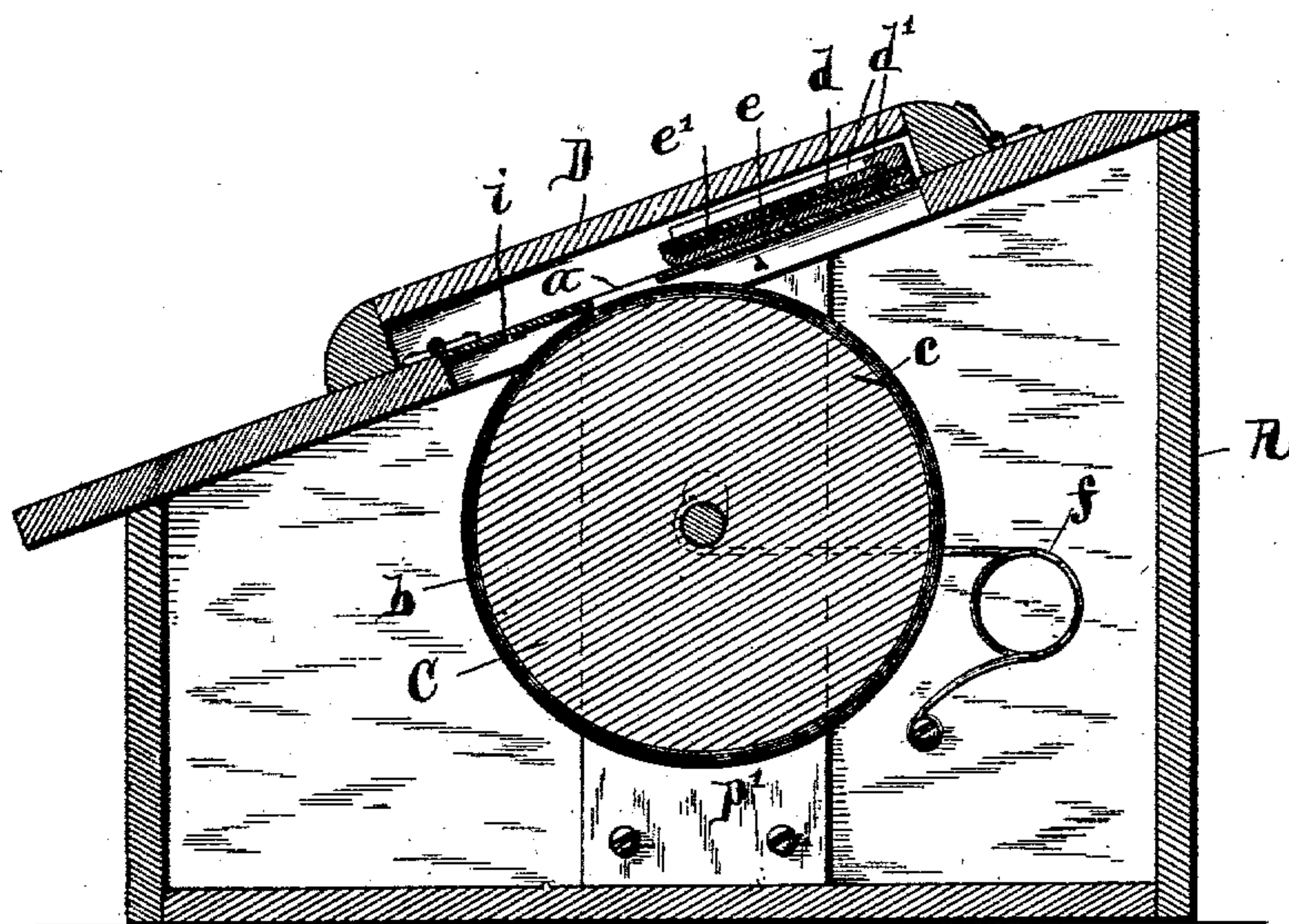


Fig. 3

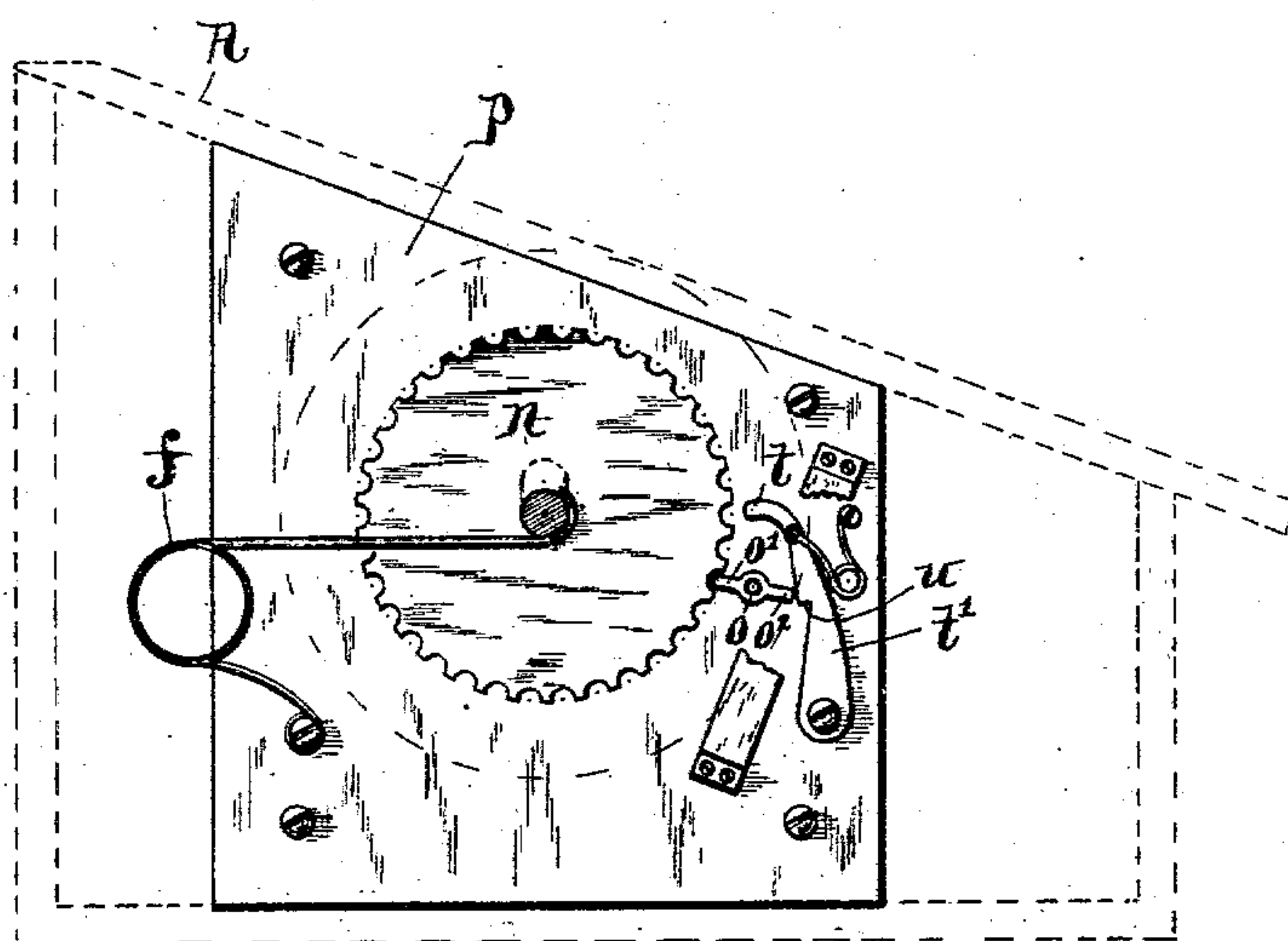


Fig. 4

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UNITED STATES PATENT OFFICE.

PETER V. MARKELL, OF JORDAN, NEW YORK.

RECORDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 720,829, dated February 17, 1903

Application filed April 28, 1902. Serial No. 104,935. (No model.)

To all whom it may concern:

Be it known that I, PETER V. MARKELL, a citizen of the United States, and a resident of Jordan, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Recording Apparatus, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

The object of this invention is to provide a recording apparatus suitable for keeping account of the products and receipts of dairies, cheese-factories, milk-stations, butter-factories, and various other purposes and which apparatus shall be inexpensive in its construction, simple, convenient, and efficient in its operation and effectually protect the recording-sheet from becoming soiled, defaced, torn, or otherwise injured; and to that end the invention consists in the novel construction of the recording apparatus hereinafter described, and set forth in the claims.

In the annexed drawings, Figure 1 is a perspective view of a recording apparatus embodying my invention. Fig. 2 is a vertical longitudinal section on line X X. Fig. 3 is a vertical transverse section on line Y Y, with the lid closed over the record; and Fig. 4 is a detached face view of the means for turning and locking the roller which carries the record-sheet.

Similar letters of reference indicate corresponding parts.

A represents the case, which incloses and protects the recording devices and is provided with a longitudinal slot *a* to expose a portion of the sheet upon which the record is to be written. Within said case is a cylinder or roller C, which is axially parallel with the slot *a* and pivoted at the centers of its ends to plates P P', attached to the inner sides of the end walls of the case. Upon the periphery of the roller C is mounted a sheet *b*, upon which the records are to be written through the slot *a*. The said record-sheet is fastened at one end to the roller, which is provided with a longitudinal slot *c*, into which said end of the sheet is inserted, as shown in Fig. 3 of the drawings. The sheet is marked with vertical lines *l l*, forming a series of columns, which by means of horizontal lines are divided into recording-spaces arranged in a row

extending lengthwise of the slot *a*, through which said row is exposed to permit of writing the records thereon. The first column shows the dates of the records entered in the successive rows of recording-spaces, and the last column is designed for the entry of the totals of records thus entered.

Above the slot *a* and extending lengthwise thereof is an index-sheet *d*, supported upon a plate *e*, which is firmly mounted upon the case A. Said sheet is protected by means of a glass plate *e'*, covering the sheet and sustained by moldings *d'*, attached to the case. This index-sheet is marked with transverse lines forming spaces *h h* for the entries of the subjects which require the records. Said subjects may be either the different cows of a dairy or persons delivering milk to a cheese-factory or butter-factory or milk-receiving station. The lower edge of the plate *e* is in juxtaposition to the top edge of the slot *a* and is sharp to serve when necessary as a cutter for severing the record-sheet *b* from the roller C. To lift the roller C, so as to maintain the record-sheet in contact with the aforesaid edge of the plate *e*, I provide the plates P P' with vertical slots for the reception of the pivots or gudgeons on the ends of the roller and place under said roller suitable springs *f* for forcing the roller upward.

i is a plate hinged to the top of the case and bearing with its upper edge upon the portion of the record-sheet exposed through the slot *a*, said plate serving to maintain the sheet smooth under the said slot.

D designates a lid hinged to the case and shaped to cover the index *d* when the apparatus is not in use.

For turning the roller C so as to bring the successive horizontal rows of recording-spaces into position to be exposed through the slot *a*, I attach to one end of said roller a notched disk *n* and provide a key *o*, which is to be inserted through the end of the case A and adjacent plate P and has projecting from it a lug *o'*, engaging one of the notches of the disk *n*, so that the turning of the key causes the roller C to be turned a sufficient distance to place the next blank row of recording-spaces to the slot *a*. To maintain the roller C in its adjusted position, I employ a suitable detent *t*, preferably of the form of a dog at-

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 5 tached to a spring-actuated arm t' , attached to the plate P and thrown out of engagement by a lug o^2 on the key. To prevent reverse movement of the key, I provide the detent t with a shoulder u , which the lug o^2 encounters in its reverse movement.

10 In using my described recording apparatus at a dairy where it is desired to keep a record of the milk furnished by different cows the dairyman marks the name or number of each of the different cows in a separate space h and marks in the subjacent space of the record-sheet the quantity of milk obtained from the cow designated in the index registering with said recording-space. In this manner the dairyman is enabled to keep an account of the value of each cow in regard to her milking capacity.

15 My described recording apparatus is equally useful in cheese-factories, butter-factories, and milk-receiving stations to keep an account of the amounts of milk furnished by the different patrons. In this case the names of the said patrons are marked in different index-spaces h , and the amounts of milk furnished by them are marked in the recording-spaces directly under the respective index-spaces. The total received each day may be entered at the end of each horizontal row of registering spaces, and the total received from each cow or furnished by each patron during a certain period may be entered at the end of each vertical column formed by the lines ll .

What I claim as my invention is—

35 1. A recording apparatus consisting of an

inclosing case provided with a record-exposing slot, a roller disposed in said case axially parallel with said slot and pivoted at its ends, a record-sheet mounted on said roller, springs forcing the roller toward the slot, an index mounted on the case in juxtaposition to the aforesaid slot, and means for turning the roller as set forth.

2. A recording apparatus consisting of an inclosing case provided with a record-exposing slot, a roller disposed axially parallel with said slot and pivoted to the ends of the interior of the case, a record-sheet mounted on said roller, a plate bearing upon said sheet along one of the edges of the slot, springs forcing the roller toward the slot, an index mounted on the case in juxtaposition to the slot, and means for turning the roller as set forth.

3. A recording apparatus consisting of an inclosing case provided with a record-exposing slot, a roller disposed in the case axially parallel with said slot and pivoted at its ends, a record-sheet mounted on said roller, a notched disk attached to the end of the roller, a spring-actuated detent engaging said disk, a key provided with means for throwing the detent out of engagement and turning the roller, and an index mounted on the case in juxtaposition to the recording-exposing slot as set forth.

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Witnesses:

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JAY N. WALLACE.