Oct. 27, 1931. O. F. FULLER 1,829,272

RECORDER

Filed Dec. 18, 1929 2 Sheets-Sheet 1

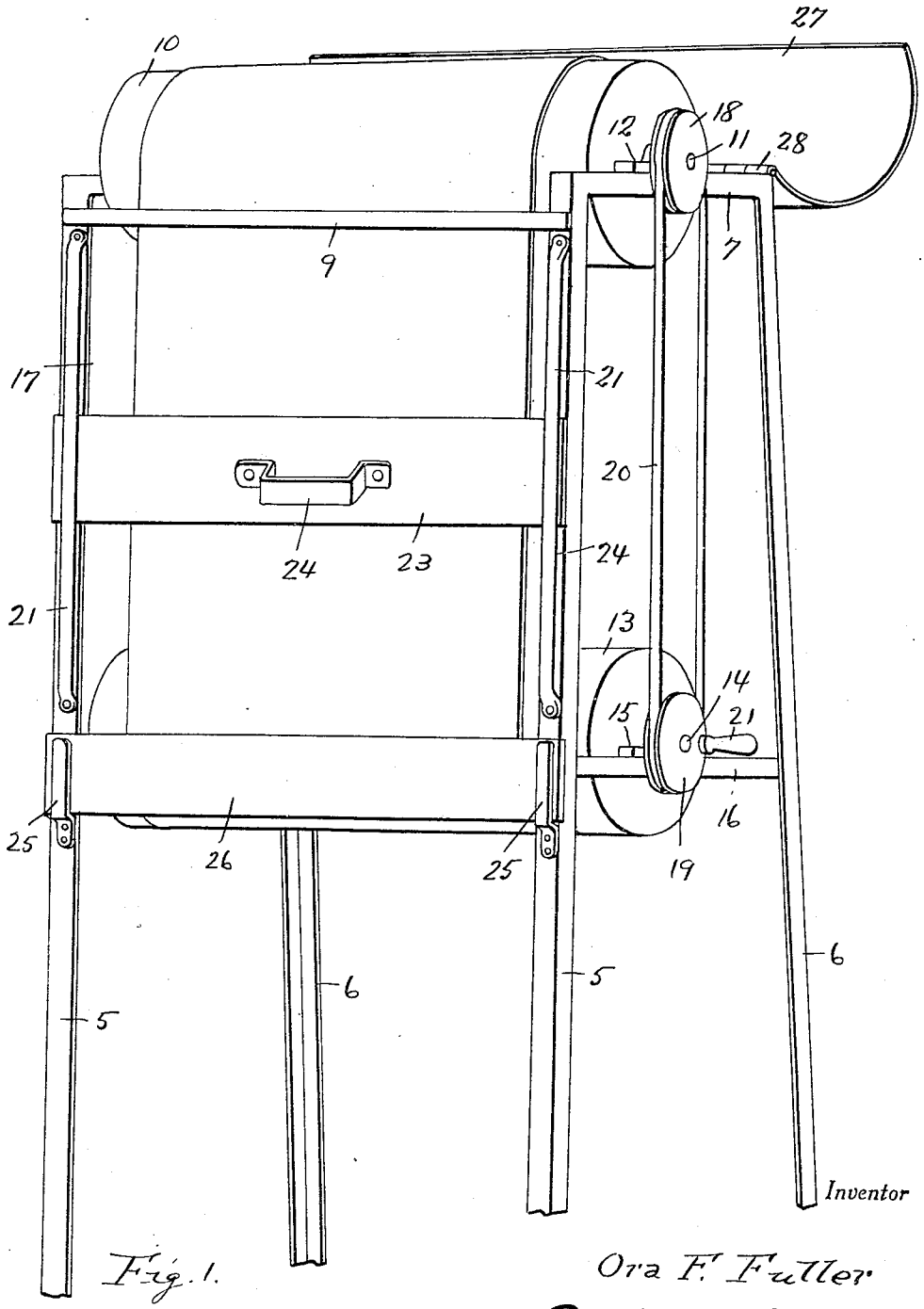


Fig. 1.

Inventor

Ora F. Fuller

By Clarence A. O'Brien

Attorney

Oct. 27, 1931. O. F. FULLER 1,829,272

RECORDER

Filed Dec. 18, 1929 2 Sheets-Sheet 2

Fig. 2.

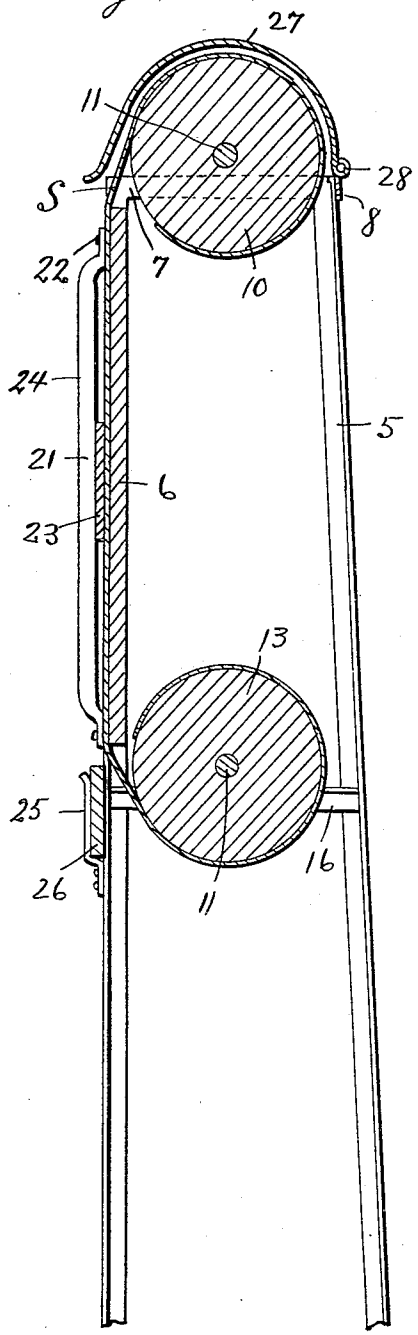
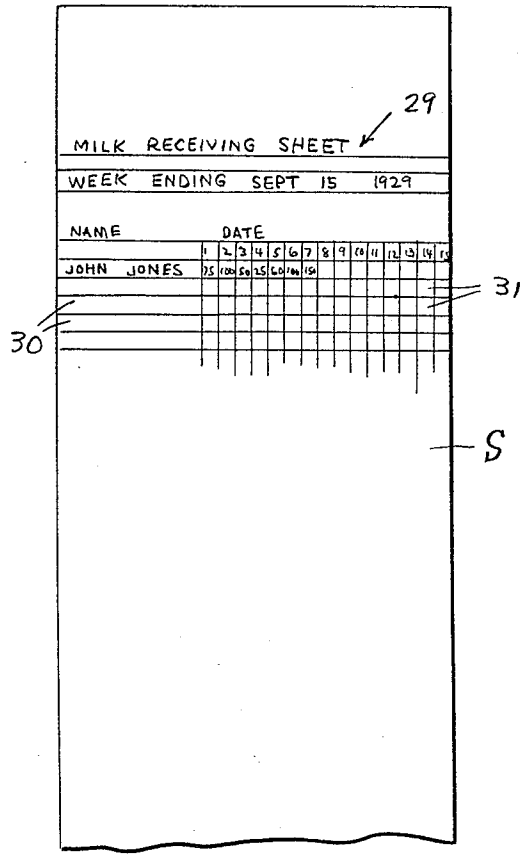


Fig. 3.



Inventor

Ora F. Fuller

By Clarence A. O'Brien

Attorney

Patented Oct. 27, 1931

1,829,272

UNITED STATES PATENT OFFICE

ORA F. FULLER, OF SOUTH BEND, INDIANA

RECORDER

Application filed December 18, 1929. Serial No. 415,084.

This invention relates broadly to recording devices and has more particular reference to a recording device for recording the quantity of milk received by patrons and for recording the quantity of the milk received either by the dairy, monthly or semi-monthly as desired.

The invention further comprehends the provision of a suitable supporting frame having a pair of rollers journalled therein and a suitably ruled and otherwise prepared sheet winding on the rollers from one to another, upon which sheet is to be recorded the data as above mentioned.

Other objects and advantages of the invention will become apparent during a study of the following description, taken in connection with the accompanying drawings, wherein:

Figure 1 is a perspective view of the recorder, the hinge cover plate of the recorder being shown swung to a non-covering position,

Figure 2 is a longitudinal sectional view taken therethrough, the cover plate being shown disposed over the upper roller for covering the frame,

Figure 3 is a fragmentary plan view of the recorder sheet per se.

Referring in detail to the drawings it will be seen that my milk weight recorder comprises a frame embodying a pair of spaced parallel side members, each of which include a forward leg 5 and a rear leg 6, the legs of the respective side members converging said top and at their upper edges are connected by a suitable cross member 7. At their upper ends, the side frame members have their rear legs connected through the medium of a transverse frame member 8. The forward legs 5 are connected by a suitable transverse horizontal frame member 9.

A roller 10 is provided at opposite ends thereof with suitable pintles 11 journaled in bearings 12 on the cross members 7. A second roller 13 is provided opposite ends thereof with suitable pintles 14 journaled in bearings 15 mounted on cross bars 16 connecting the front and rear legs of each of the side frame members intermediate the ends of the side frame as shown to advantage in Figure 1.

Mounted between the forward legs 5 at the upper portion thereof is a back board 17, the longitudinal side edges of which are suitably secured to the forward legs 5 for retaining the boards in position. A data sheet S, the purpose and nature of which will be hereinafter more fully set forth is wound upon the upper roller 10, and has one end thereof secured to said roller 10 in a detachable manner and through any suitable means, and this data sheet S extends downwardly over the front face of the back board 17 to be wound over the lowermost roller 13, and has its opposite end secured to the lower roller 13 in any suitable detachable manner.

Splined to one of the pintles 11 of the upper roller 10 is a grooved pulley 18, while splined to the pintle 14 on an adjacent end of the lower roller 13 is a second grooved pulley 19, which pulleys 18 and 19 are operatively connected through the medium of a belt 20 which is shown as operating thereover. A suitable handle 21 is provided on the lower pulley 19 for operating the lower roller 13 whereby through the medium of the pulleys 18 and 19 and the belt 20, rotating motion will also be imparted to the roller 10.

Manifestly, the data sheet can then be wound from the upper roller to the lower roller or vice versa for movement over the forward face of the back board 17.

Secured to the forward leg 5 of the supporting frame are elongated guide bars 21, which guide bars 21 are substantially the same in length as the back board 17. The intermediate portion of the guide bars 21 being in spaced parallelism to the leg 5, while at their ends, the said bars 21 are secured by bolts or other securing elements 22 to said legs.

Extending across the back board 17 is a sliding scale 23, the ends of which are operable in the longitudinally extending guide faces 24 formed on opposite sides of the back board 17 through the medium of said guide members 21 and the forward leg 5.

The sliding scale 23 may be provided with a suitable handle 24 to facilitate the sliding movement thereof.

Transversely alined bracket members 25 are suitably secured to the forward leg 5 in spaced relation to the lower ends of the guide members 21, and these brackets 25 cooperate with the adjacent portion of the leg 5 for retaining in place a shield forming bar 26.

The shield bar 26 extends across the frame between the forward leg members 5 in parallelism to the lowermost roller 13 and acts as a shield for the roller, and as is apparent the guard shield 26 may be easily removed or placed in position as may be desired.

A semi-cylindrical cover shield 27 has one longitudinal edge thereof hinged as at 28 to the transverse upper frame member 8, and when in closed position as shown to advantage in Figure 2, the cover shield 27 is adapted to extend over the upper portion of the upper roller 10, thus acting as a protector cover for the roller and that portion of the sheet extending over the upper portion of said roller 10.

The data sheet S may be of any suitable form and of any suitable length as to enable it to be wound and unwound from one roller to another, and any desired data just as indicated generally as at 29 may be inscribed on the data sheet.

As shown to advantage in Figure 3, the surface of the data sheet, which is preferably formed from elongated flexible material is divided into a plurality of longitudinally disposed series of spaces 30, each of which adjacent one side of the paper is adapted to receive certain entries such as the name of the patron to whom the milk is delivered while adjacent the other side of the paper the sheet through the medium of spaced parallel longitudinally extending line formed with the transversely extending line a plurality of series of block like spaces 31, there being a series of such spaces 31 opposite each of the spaces 30, and into the block, which block may designate either a daily or a monthly record of the number of pounds of milk delivered to the patron whose name is opposite to that specific series of blocks.

Of course the name and the amount or weight of the milk delivered may be written on the data sheet while the same is extended across the face of the back board which provides a suitable supporting surface to facilitate the writing of this information on the data sheet.

Manifestly by moving the slide scale 23 longitudinally of the sheet, the upper edge of the scale 23 may be brought directly opposite to one of the transverse lines on the sheet to facilitate one in reading any certain data concerning one of the names written on the sheet.

Of course, the sliding scale will also aid in a measure in keeping the sheet clean, eliminating the necessity of one's hands or fingers coming into contact with the sheet to point out any definite information on the sheet.

It is believed that from the foregoing description, taken in connection with the accompanying drawings, a clear understanding of the operation, construction, utility and advantages of a record sheet of this character will be had by those skilled in this art without a more detailed description.

Having thus described my invention, what I claim as new is:

A recording device comprising a stand, upper and lower rollers journaled in the stand, a backing board mounted in the stand tangentially between said rollers, a data sheet movable over the backing board and having its opposite ends secured to said rollers, manually controlled means for simultaneously rotating said rollers to feed said record across said board, spaced longitudinally extending guides secured to said stand adjacent opposite sies of said backing board, a sliding entry-finder extending transversely of said backing board with its opposite ends constrained to slide within said guides, a transverse roller shielding member extending across said stand adjacent the lower end of said backing board and in front of the lowermost roller, and a cover shield hingedly secured to said frame at the upper end thereof and conformably fitting over the upper portion of the uppermost roller.

In testimony whereof I affix my signature.

ORA F. FULLER.