No. 876,958. PATENTED JAN. 21, 1908.

W. N. GILBERT.

RECORDING WEIGH BEAM FOR SCALES.

APPLICATION FILED MAY 13, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

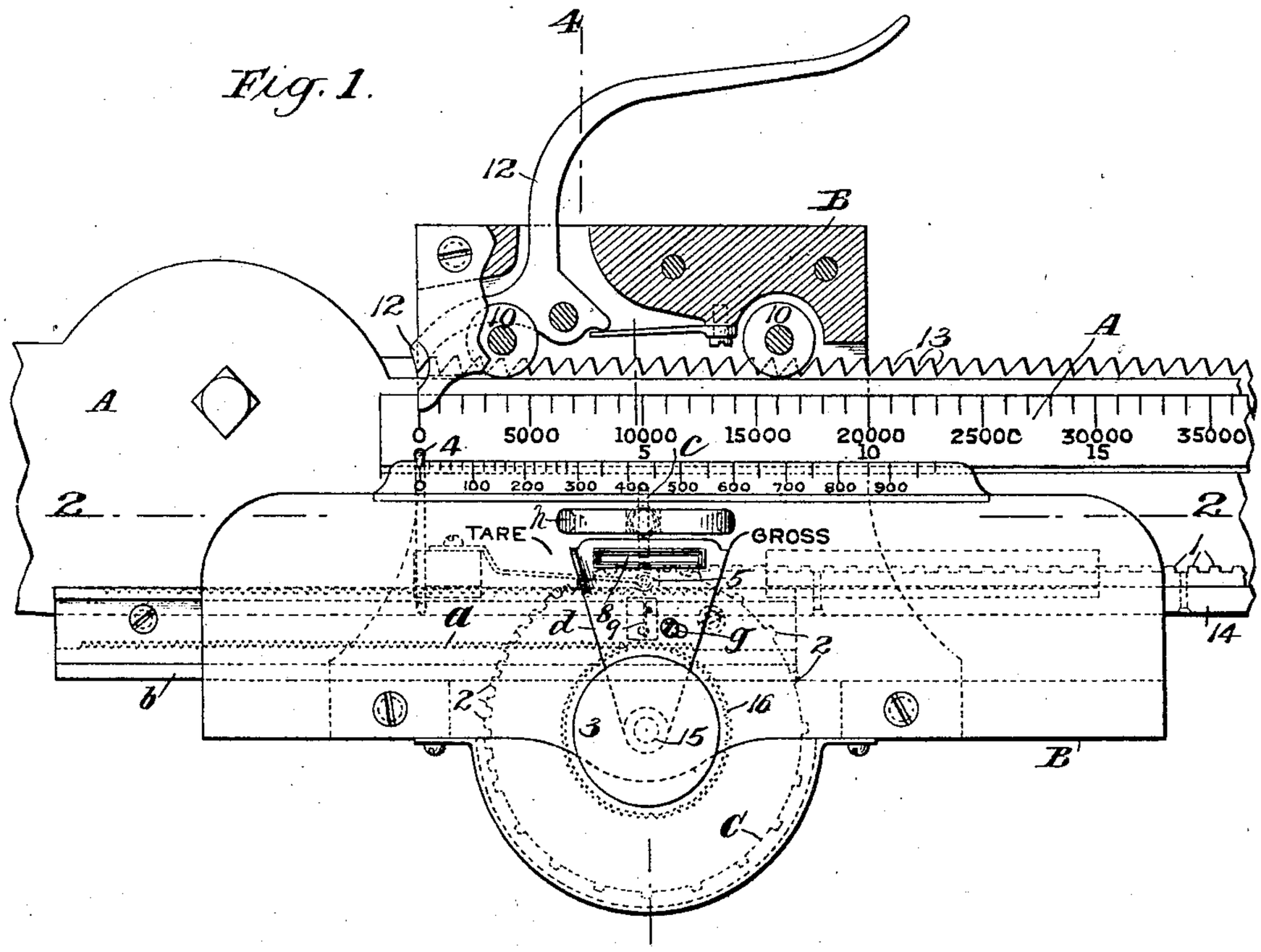

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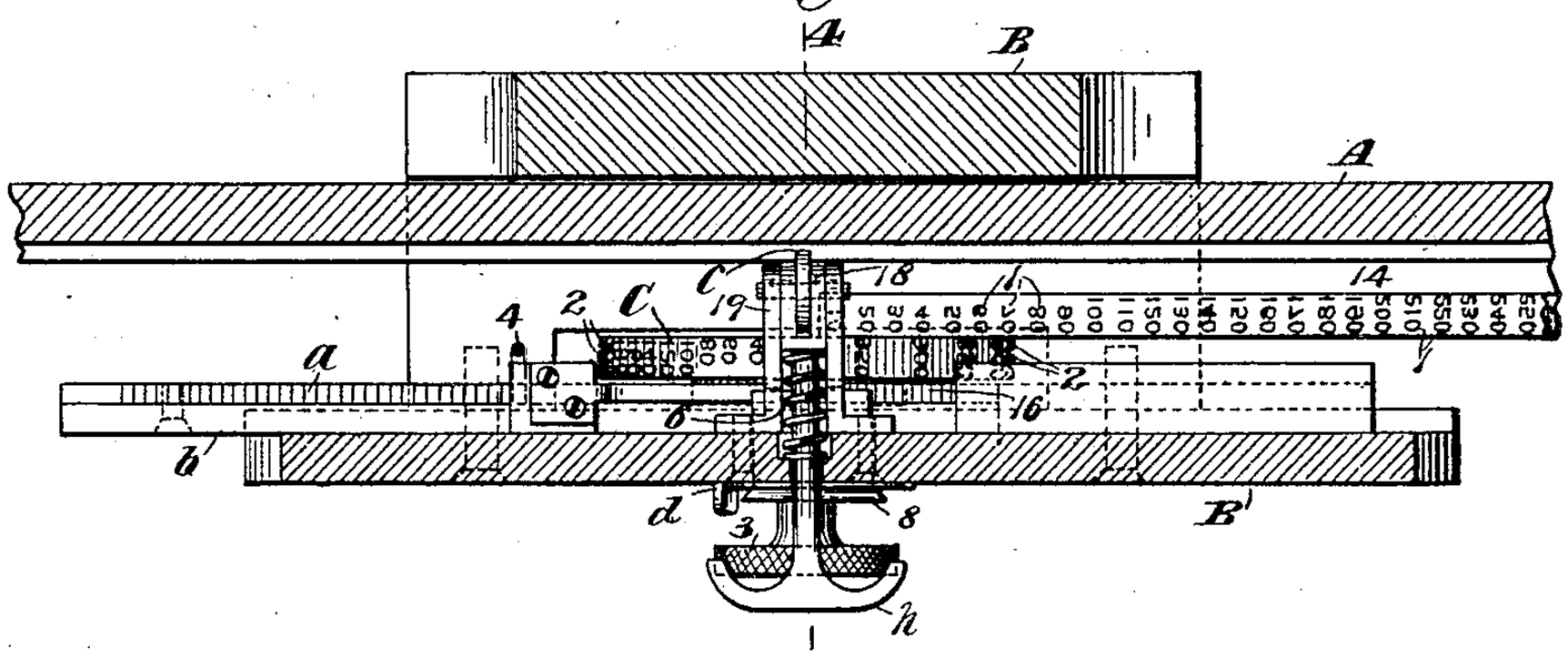
Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

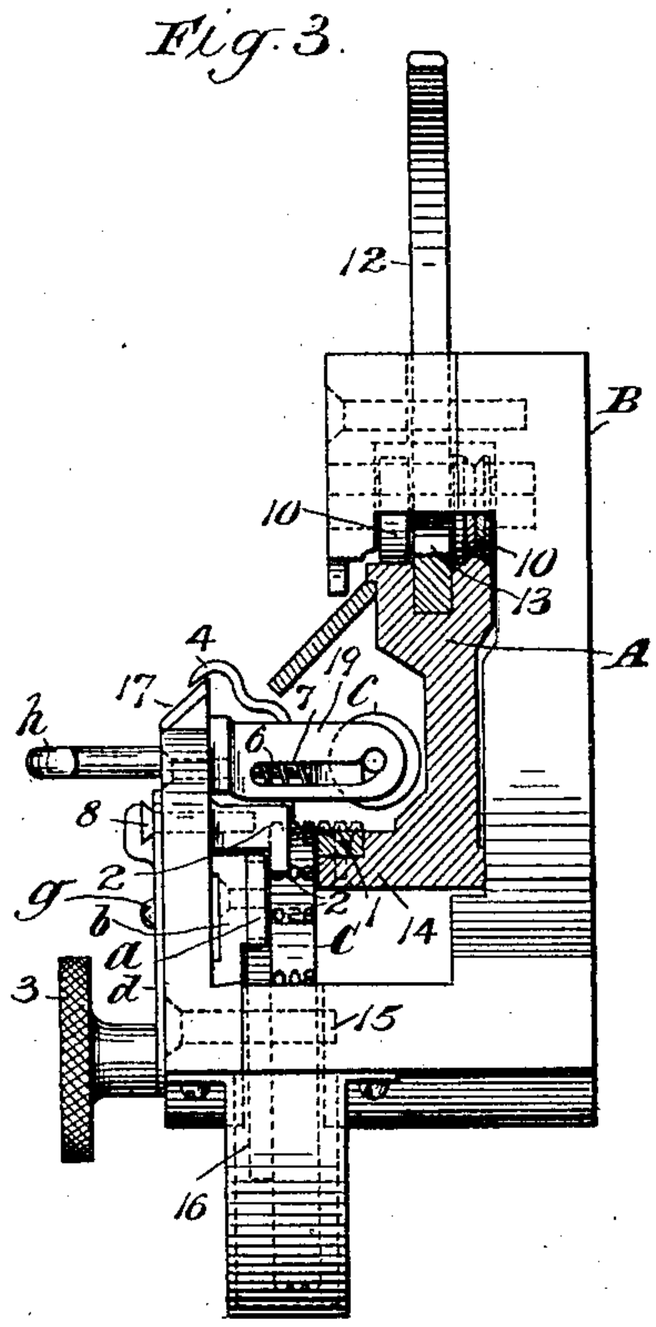
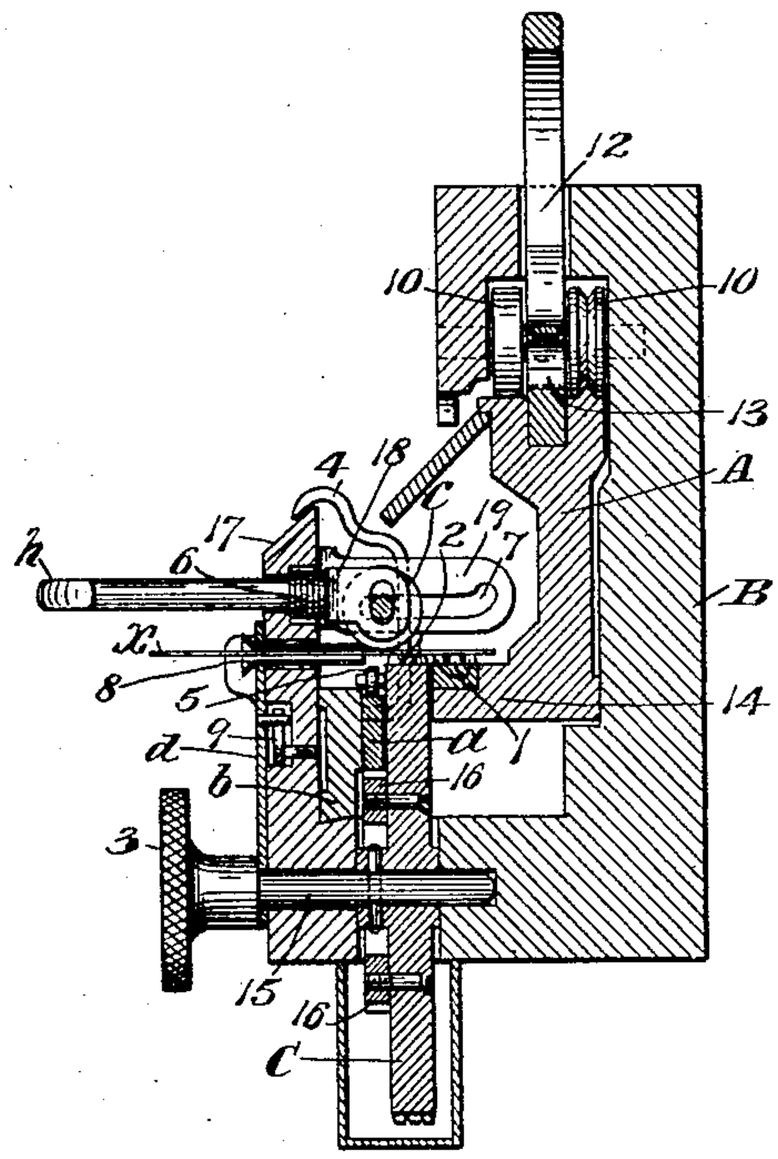


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM N. GILBERT, OF BINGHAMTON, NEW YORK, ASSIGNOR TO OSGOOD SCALE COMPANY, OF BINGHAMTON, NEW YORK, A CORPORATION OF NEW YORK.

RECORDING WEIGH-BEAM FOR SCALES.

No. 876,958. Specification of Letters Patent. Patented Jan. 21, 1908.

Application filed May 13, 1907. Serial No. 373,252.

To all whom it may concern:

Be it known that I, WILLIAM N. GILBERT, a citizen of the United States, residing at Binghamton, county of Broome, and State of New York, have invented certain new and useful Improvements in Recording Weigh-Beams for Scales, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to recording weigh beams for scales, the object of the invention being to provide a simple, compact and efficient construction of weigh beam and printing devices.

For a full understanding of the invention a detailed description of a weigh beam embodying the same in its preferred form will now be given in connection with the accompanying drawings forming a part of this specification and the features forming the invention specifically pointed out in the claims.

In the drawings:—Figure 1 is a front elevation of a portion of the weigh beam, with the main poise partly in section. Fig. 2 is a horizontal section on the line 2 of Fig. 1. Fig. 3 is an end elevation with the main beam in section. Fig. 4 is a cross section on line 4 of Figs. 1 and 2 showing the parts in position at the end of the printing operation.

Referring to the drawings, A is the main scale beam, B the main poise mounted thereon by rollers 10 and locked in position thereon by a spring pressed stop pawl 12 engaging notches 13. The main beam A has flange 14, on the upper surface of which is a type bar carrying the type 1 for printing a part of the weight, the thousands in the scale illustrated. The type 2 for printing the hundreds in the scale illustrated are carried by printing wheel C, which is carried by pivot stud 15 mounted to rotate in the main poise A, and provided with a thumb piece 3 for rotating it. The type wheel C carries a gear 16 which gears with the lower side of the auxiliary poise *a*, so as to move the latter as the type wheel is rotated, the auxiliary poise carrying the pointer 4 which moves over index plate 17 on the front of the main poise. The auxiliary poise is yieldingly held in position by spring roller 5 engaging teeth on the top of the auxiliary poise, and is held in position and guided by bar *b* moving with it on the main poise.

Above the type 1, 2 is the impression roller *c* which is mounted in a sliding carrier 18 spring pressed inward by spring 6 and provided with a handle *h* for moving the roller for printing. The printing pressure on *c* is secured by the cam slots 7 in brackets 19 which raise and lower the roller *c* in slots in the carrier 18 in which the roller is mounted. The ticket *x* is introduced above the type and below the roller *c* through ticket slot 8 formed in a swinging carrier *d*, which is pivoted on the stud 15 so as to swing between the positions of printing tare and gross weight, being normally held in position for printing gross weight, as shown in the drawings, by spring 9. By moving the ticket carrier *d* to the left from the position shown in Fig. 1, the ticket will be brought into position for printing tare weight. It will be seen that this movement of the ticket carrier to the left in Fig. 1 for printing tare weight, forces the pawl 12 into the notches 13, so as to hold the poise more strongly, instead of withdrawing the pawl with liability of moving the poise, as would be the case if the ticket carrier moved to the right for tare weight. This is an important detail feature of the construction shown. The ticket holder is stopped in proper position for printing the two weights by stop *g* in a slot in the holder.

The operation of the construction will be understood from the drawings without a detailed description, Figs. 1 to 3 showing the parts in position with the printing roller *c* moved inward past the type 1, 2 by spring 6 and raised by the cam slots 7, while Fig. 4 shows the roller *c* drawn out and after pressing the ticket *x* against the type for printing. The use of the main poise and auxiliary poise, and their relation to the printing type, is the same as in previous weigh beams, the type for the auxiliary poise, however, being carried on the printing wheel instead of on the auxiliary poise itself.

It will be understood that the invention is not to be limited to the exact form or arrangement of parts shown, but that modifications may be made therein while retaining the invention as defined by the claims.

What I claim is:—

1. In a recording weigh beam, the combination with the main beam and type thereon and the main and auxiliary poises, of a type wheel rotating with the movement of

the auxiliary poise, and devices for printing from the type on the main beam and type wheel.

2. In a recording weigh beam, the combination with the main beam having a printing portion with type on its upper side, and the main and auxiliary poises, of a type wheel rotating with the movement of the auxiliary poise, and devices for printing from the main beam and top of the type wheel.

3. In a recording weigh beam, the combination with the main beam having a printing portion with type on its upper side, and the main and auxiliary poises, of a type wheel rotating with the movement of the auxiliary poise, a ticket holder above the type, and devices for pressing the ticket downward on the main beam and top of the type wheel.

4. In a recording weigh beam, the combination with the notched main beam and main poise and its pawl, of a ticket holder movable into position for the indication of gross weight and tare weight, said movement for the indication of tare weight being in a direction to force the pawl into the notches.

5. The combination with the main beam A carrying printing type 1, of the main poise B, auxiliary poise *a* sliding in the main poise, and type wheel C geared to the auxiliary poise.

In testimony whereof, I have hereunto set my hand, in the presence of two subscribing witnesses.

WILLIAM N. GILBERT.

Witnesses:

CHAS. A. BALL,

RAY GAFFNEY.