

F. EGNER.
Price-Indicator for Gas or Fluid Meters.
No. 226,292. Patented April 6, 1880.

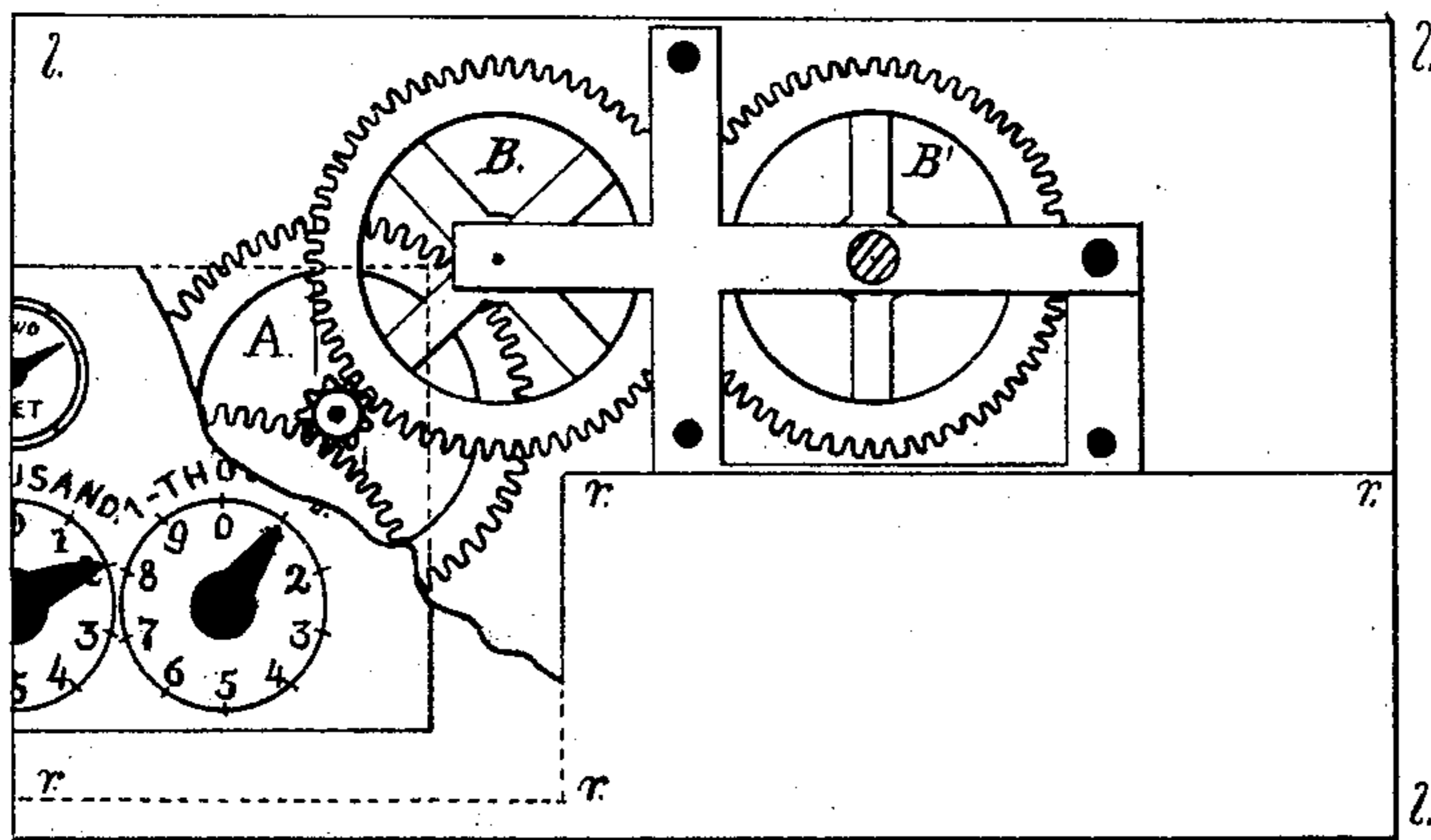


Fig. 1.

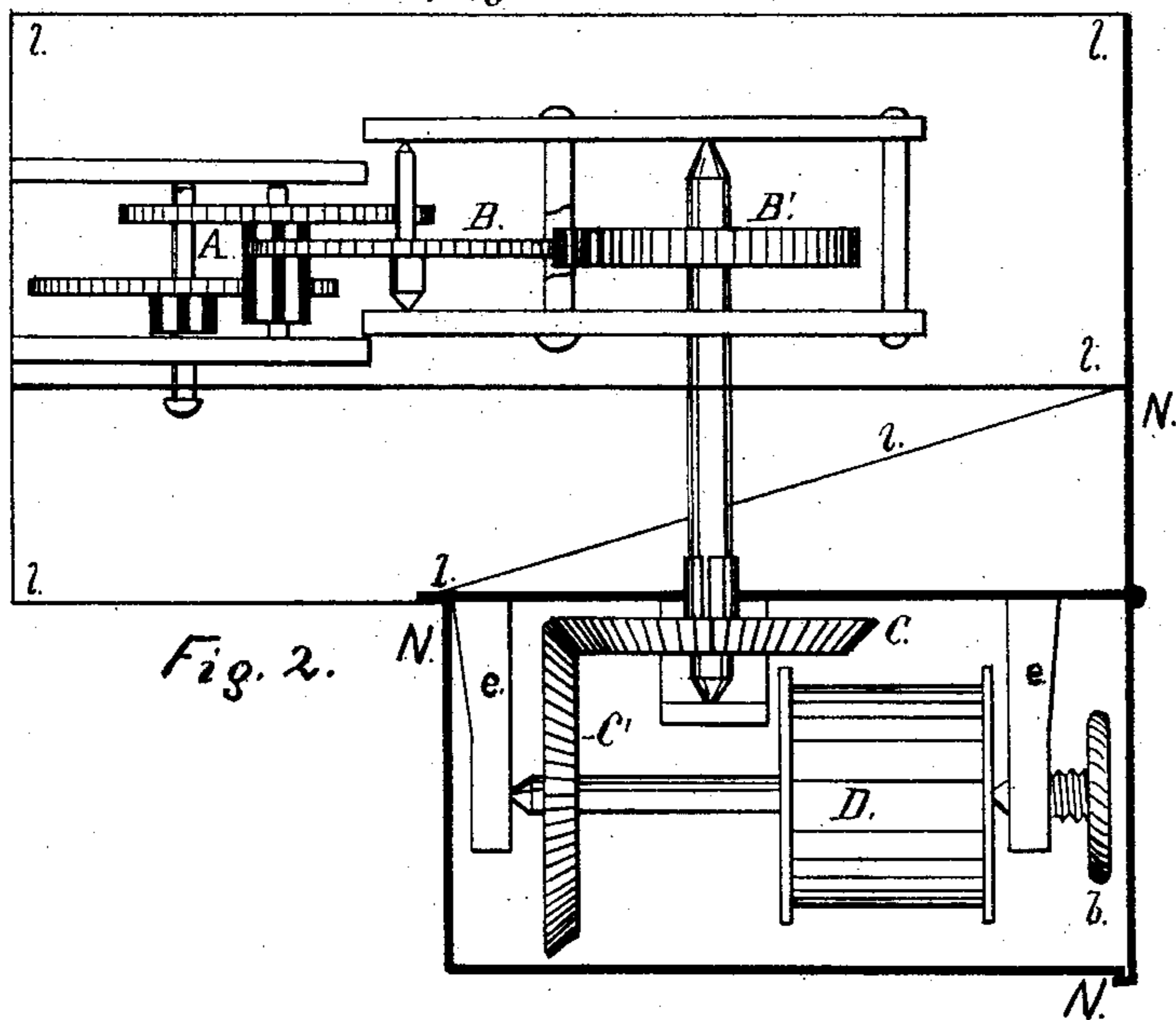


Fig. 2.

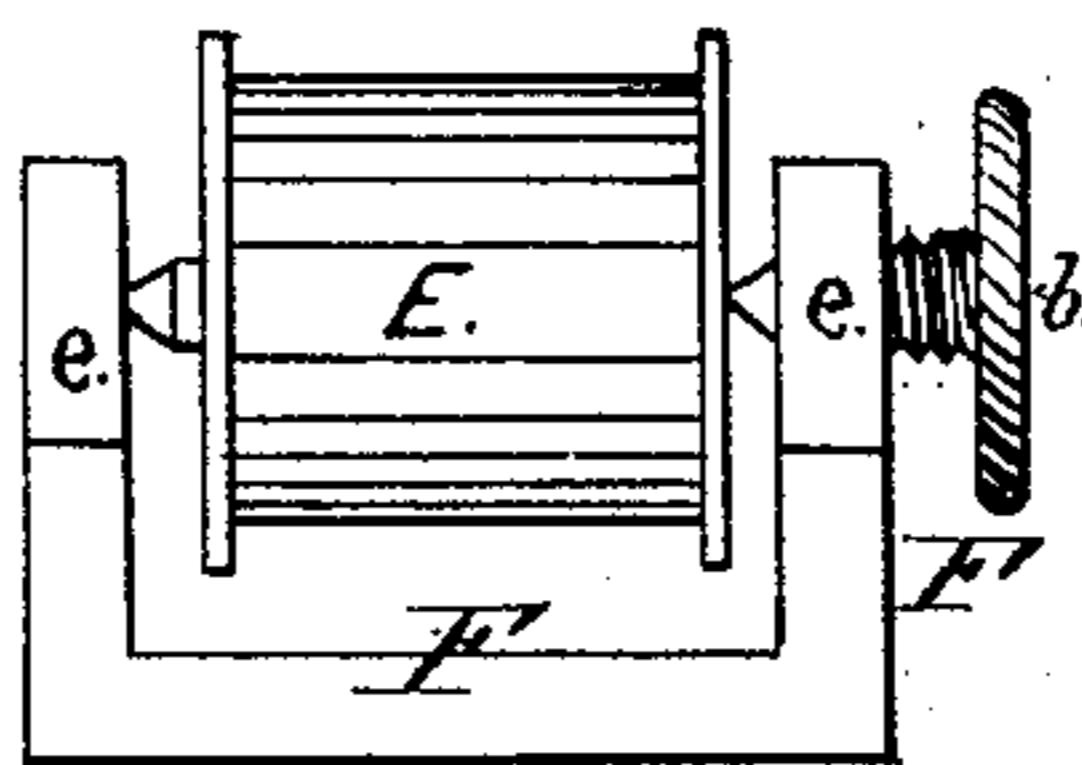


Fig. 4.

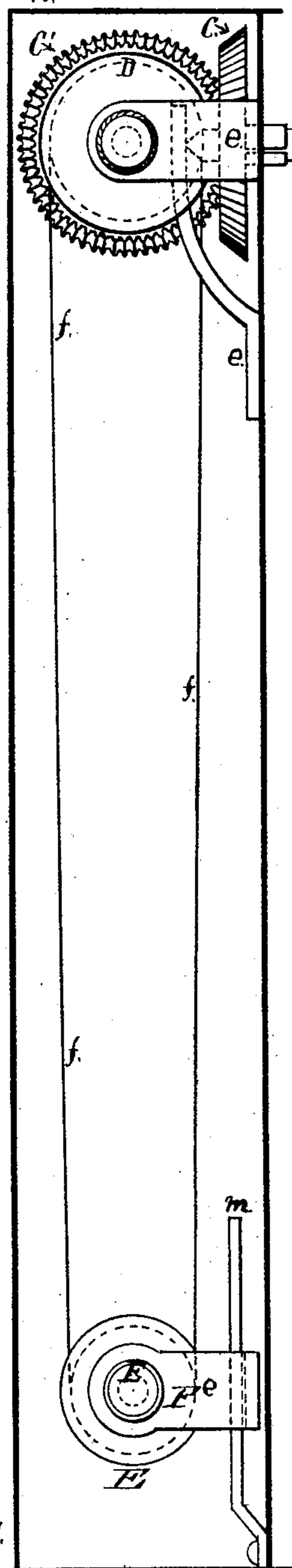


Fig. 3.

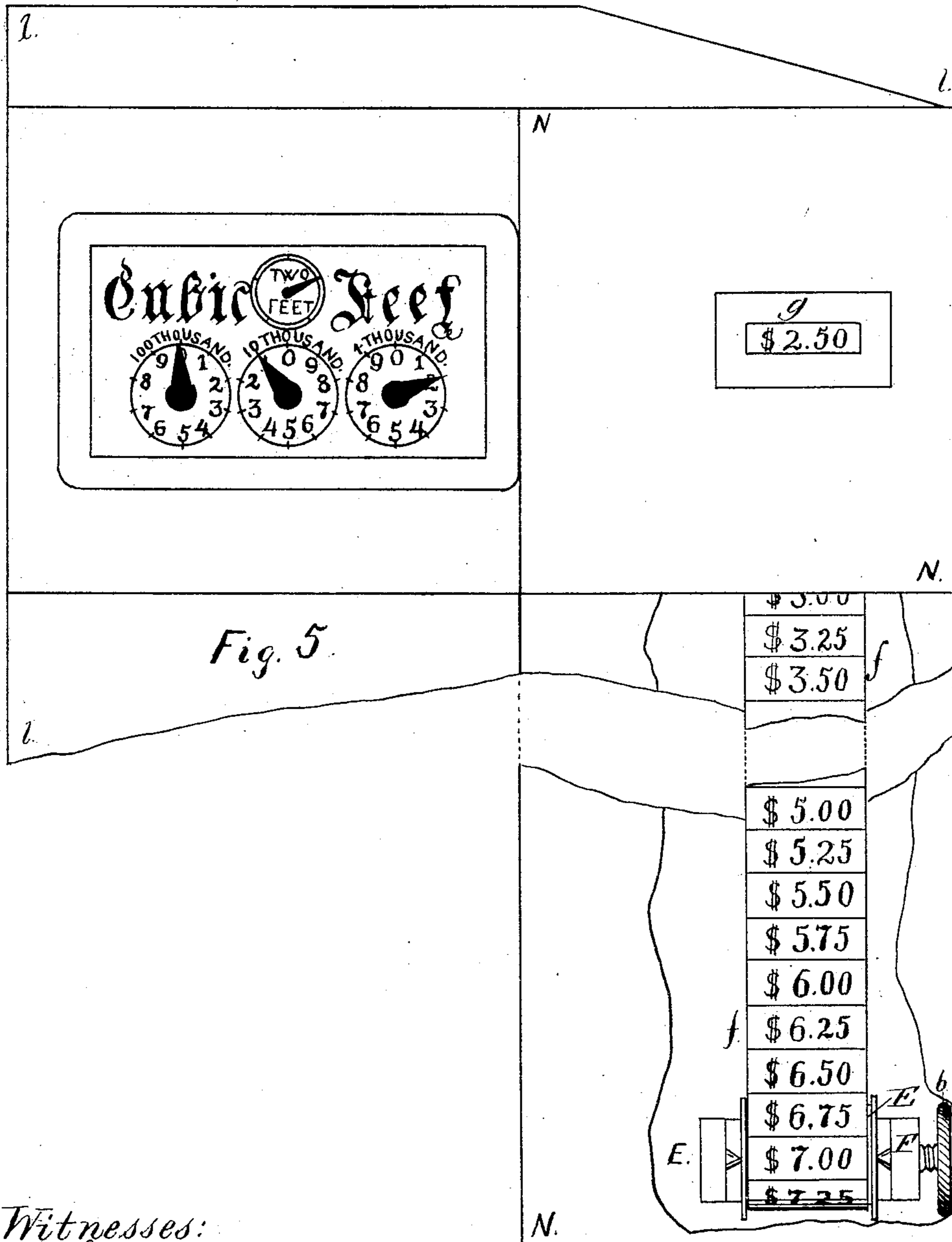
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UNITED STATES PATENT OFFICE.

FREDERIC EGNER, OF NORFOLK, VIRGINIA.

PRICE-INDICATOR FOR GAS OR FLUID METER.

SPECIFICATION forming part of Letters Patent No. 226,292, dated April 6, 1880.

Application filed February 5, 1880.

To all whom it may concern:

Be it known that I, FREDERIC EGNER, of Norfolk, in the State of Virginia, have invented certain new and useful Improvements in
5 Meters, of which the following is a specification.

My invention, while adapted for use in connection with any meter for fluids or liquids, has been designed with special reference to
10 gas-meters.

It is my object to provide a cheap, simple, and effective price-indicator, to be used in connection with the registering-train of an ordinary meter, which will indicate in dollars
15 and cents the amount of money due for gas used during any specified period, which can be readily adjusted independently of the ordinary registering-train, and which can be easily and inexpensively changed to accord
20 with the varying prices at which the gas may be supplied.

The nature of my invention and the manner in which it is or may be carried into effect can best be explained and understood by
25 reference to the accompanying drawings, in which—

Figure 1 is a front elevation of a portion of the upper part of a meter embodying my invention with the front of the meter-case removed. Fig. 2 is a plan of the meter with
30 cover removed. Fig. 3 is a side elevation of the price-indicating mechanism and its inclosing-case with the side of the latter removed or open. Fig. 4 is a plan of the lower weighted indicator-roll detached. Fig. 5 is a front
35 view of a portion of the meter.

The gas-meter *l* is of usual form and construction, and is provided with the ordinary registering mechanism and dials for indicating the number of cubic feet of gas consumed.
40

With the "hundred" pinions *A* of the registering mechanism is geared, through toothed wheels *B B' C C'*, the drum *D*, which carries an endless band or strip, *f*, of paper or other
45 material, on which is printed a scale of prices of gas from one hundred cubic feet upward, according to the prices at which the gas is sold. The band extends between this drum above and the loose tension-roller *E* below,
50 these parts being inclosed in a case, *N*, soldered or otherwise affixed to the meter-case.

In the case *N* is a sight-hole or display-opening, *g*, opposite which the figures printed

on the band are successively brought as the band is moved along by the revolving drum
55 *D*. The opening *g* should be glazed to prevent the band from being tampered with.

The tension-roller *E* is mounted in a yoke-like frame, *F*, and the weight of these parts should be sufficient to keep the band under
60 tension.

Frame *F* straddles an upright fork or guide-rod, *m*, on which it slides loosely, so as to admit of the band *f* being of varying lengths without interfering with the usefulness of the
65 machine.

The moving parts of the mechanism revolve in proper bearings *e*.

The mode of operation is as follows: Whenever the meter is set or the statement of the
70 ordinary index is taken, the starting-point of the band *f* is brought opposite to the sight-hole *g*. The starting-point of the band is zero, (indicated by a blank space.) Then, as the regular indicating mechanism revolves it im-
75 parts motion from pinion *A*, through wheels *B B' C C'*, to drum *D*, and thus to band *f*.

When it is desired to bring the band back to the starting-point, a door in the side of the case, of which the meter-inspector should
80 have the key, may be opened, and the band can then be easily pulled back to its original position. So, also, should the scale of prices at which the gas is sold be changed, and if it
85 be desired to change the band already in use for another with new prices on it, this may easily be done by slacking or loosening the center screw, *b*, which will permit the drum and tension-roller to be taken out, and the band be replaced by another.
90

What I claim as my invention, and desire to secure by Letters Patent, is—

The herein-described price-indicating attachment for meters, consisting of the drum, the tension-roller, and the price-band, mounted and arranged within a case attached to or
95 formed in one with the meter-case, as herein shown and described, the drum being connected with and receiving motion from the ordinary registering mechanism of the meter.
100

In testimony whereof I have hereunto set my hand this 28th day of January, 1880.

FREDERIC EGNER.

Witnesses:

E. A. DICK,

SAML. B. ROANE.