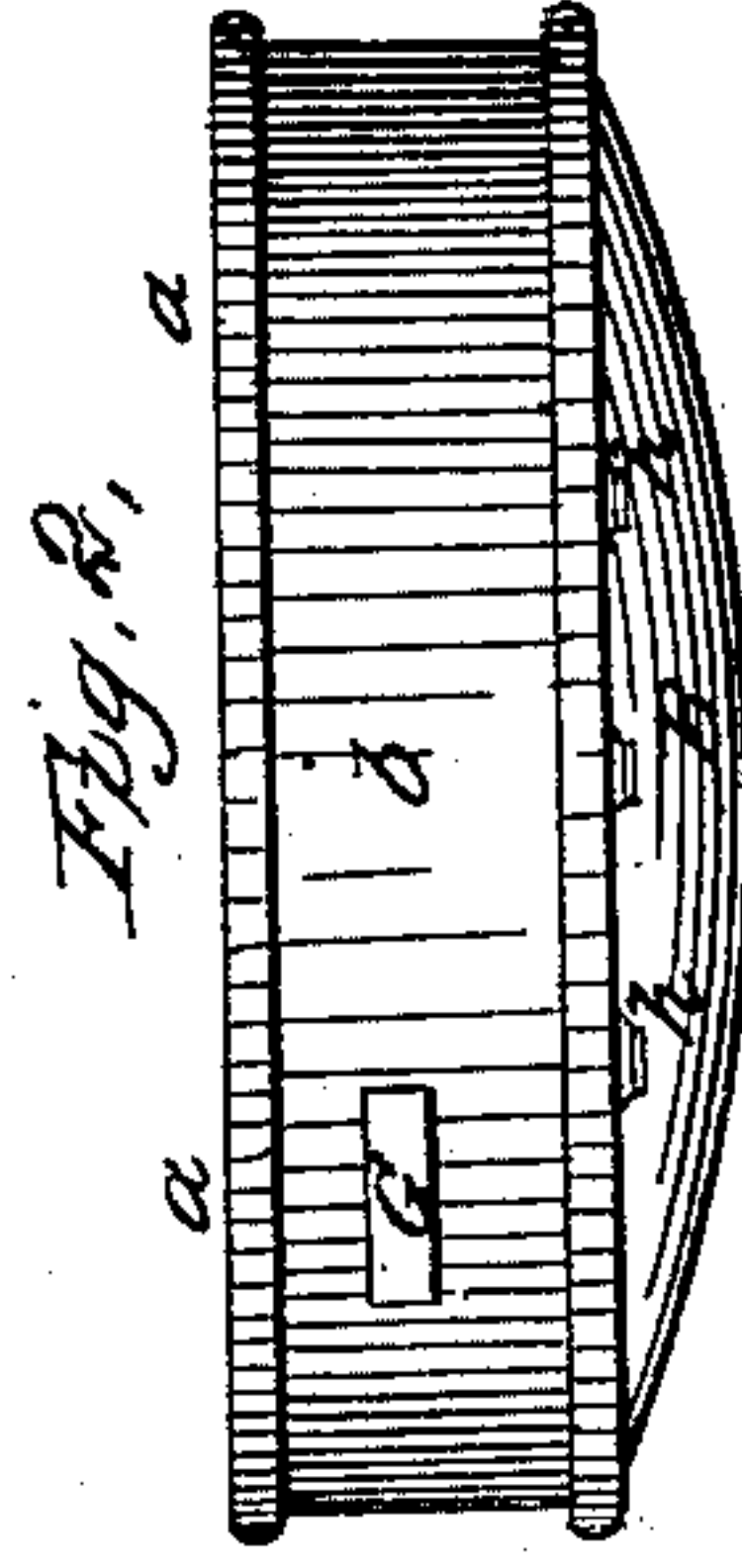
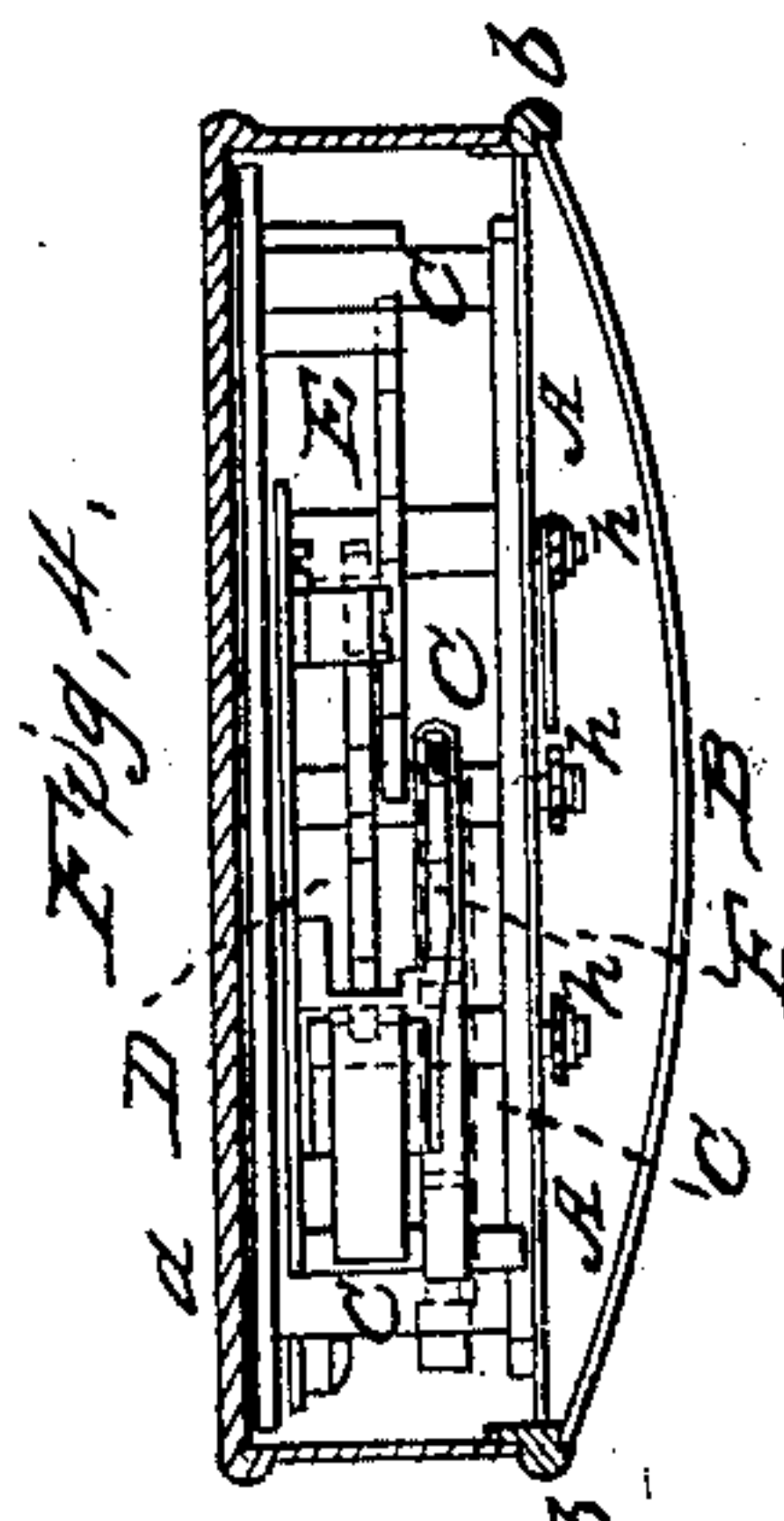
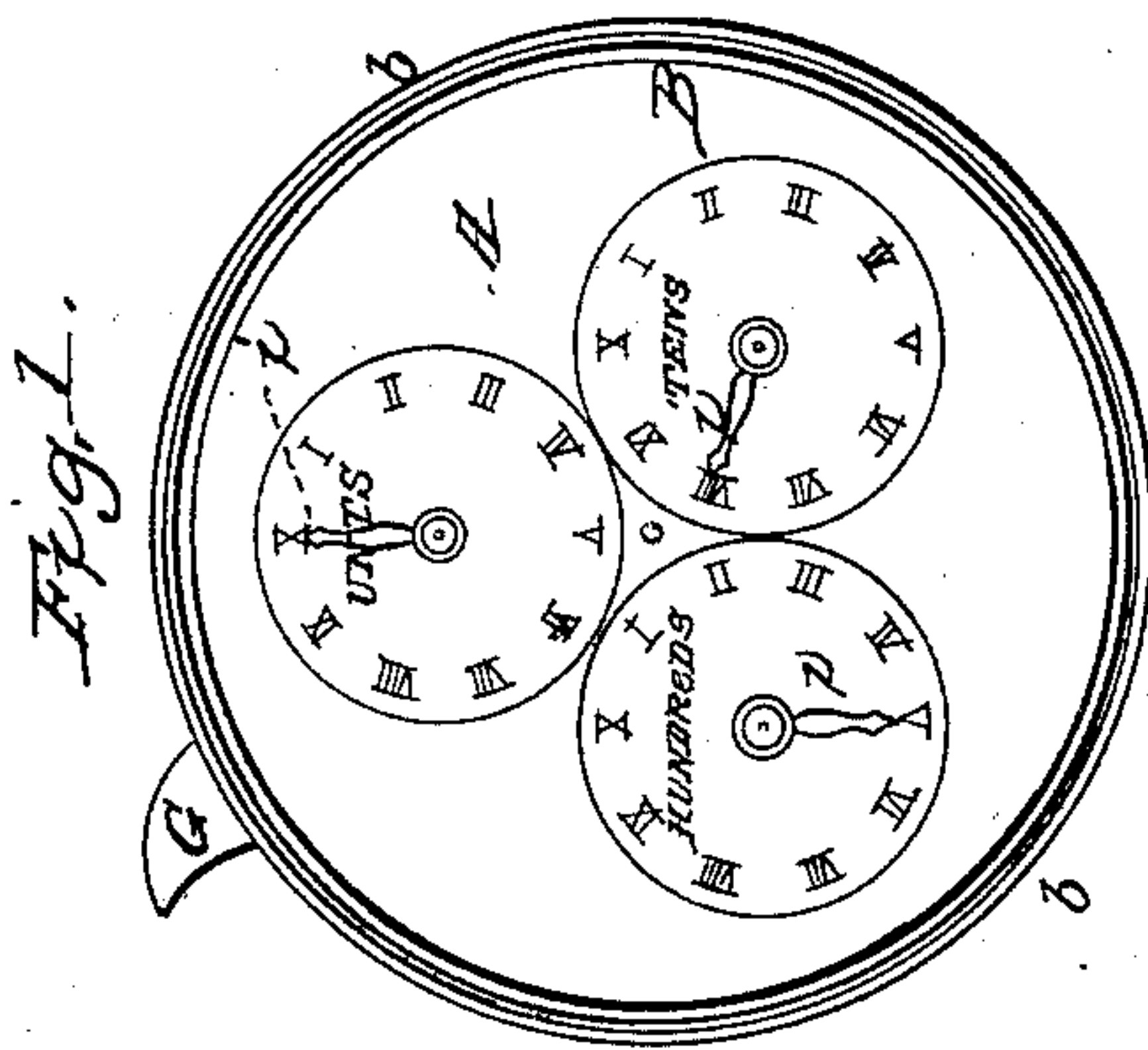
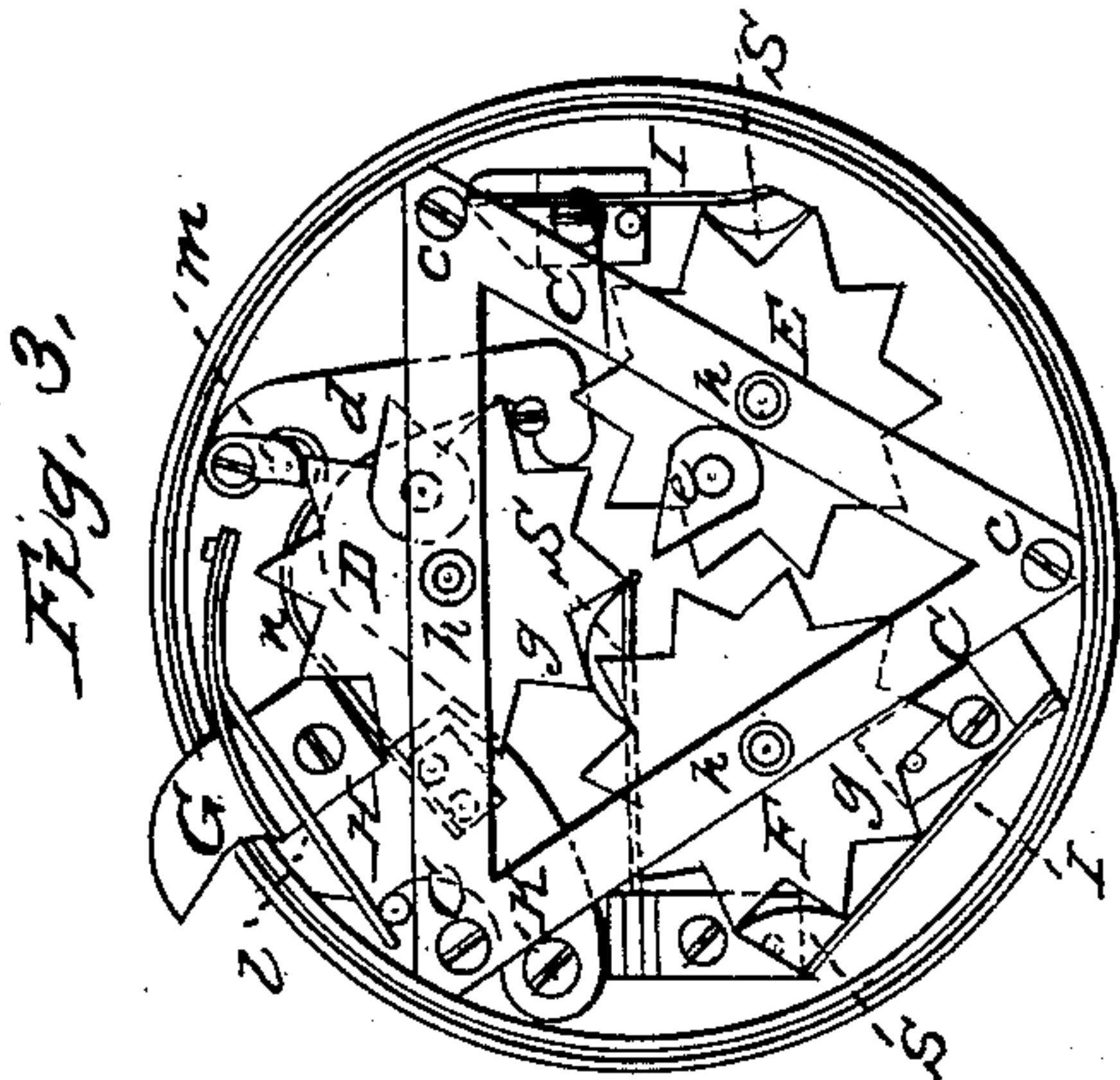
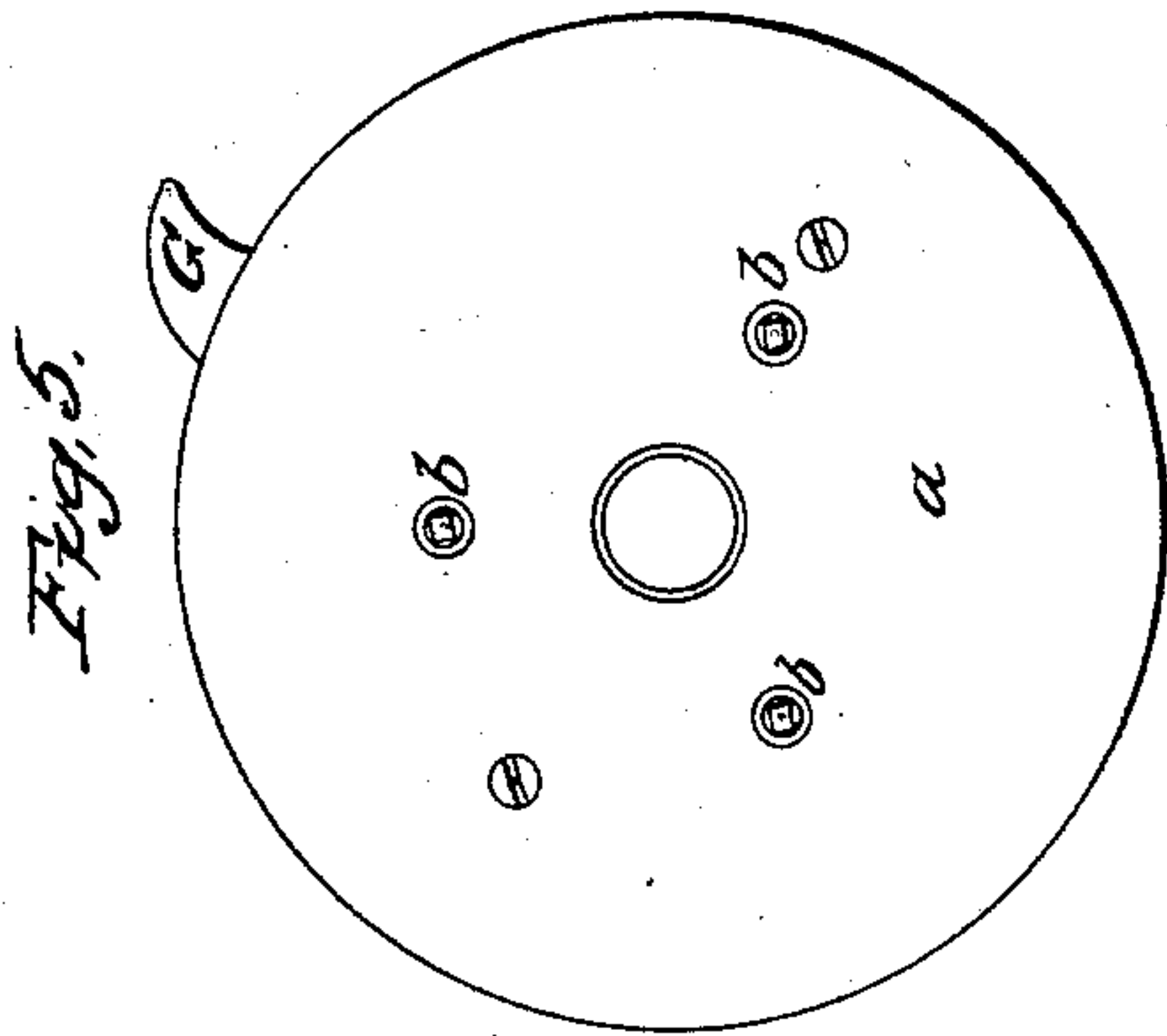


# RICHARDS & THAYER.

Register.

No. 24,757.

Patented July 12, 1859.



Witnesses:  
J. Dietrich  
Alfred Heine

Inventor  
by A. P. Plock { P. D. Richards  
Attorney { F. H. Thayer



# UNITED STATES PATENT OFFICE.

P. D. RICHARDS AND F. N. THAYER, OF NEW ORLEANS, LOUISIANA.

## POCKET-REGISTER OF COUNT.

Specification of Letters Patent No. 24,757, dated July 12, 1859.

*To all whom it may concern:*

Be it known that we, P. D. RICHARDS and  
FREDERIC N. THAYER, of New Orleans, in  
the State of Louisiana, have invented a new  
and useful Tally for Facilitating Count in  
the Entry and Delivery of Goods and for  
other Purposes; and we hereby declare the  
following to be a full and exact description  
thereof, reference being had to the accom-  
panying drawing, which forms part of this  
specification, and in which—

Figure 1, represents a face view of said  
instrument; Fig. 2 a side or edge view there-  
of; Fig. 3, a face view of the interior; Fig.  
4, a transverse section; and Fig. 5, a back  
view of the instrument.

In the transfer and entry or delivery of  
goods, such as cotton in bales, it frequently  
happens that great inconvenience is experi-  
enced by the levee clerk or tally counter, in  
noting on his book or paper each bale or pack-  
age with the necessary rapidity and precision  
to secure an accurate count on his reckoning  
up at the close of the work the several tallies  
or marks made. More particularly is this in-  
convenience experienced in the performance  
of such work at dusk or of a dark night and  
in stormy or wet weather and so confused  
and irregular or indistinct are the tallies or  
marks made under such circumstances as to  
make it a matter of difficulty to afterward  
decipher many of the marks and to sum up  
a correct aggregate.

To avoid these inconveniences and to  
facilitate the performance of such work in  
an automatic and positively accurate manner  
is the main object of our invention, the  
nature of which consists in a portable or  
pocket tally or counter of watch form or  
build and peculiar construction for opera-  
tion by the hands substantially as herein-  
after described.

The case of the instrument which consists  
of a back (*a*) and rim (*b*), may be of a size  
diameter and shape corresponding to the  
case of a large sized watch. This case has a  
face or dial plate (*A*) and a glass or trans-  
parent cover (*B*) over the face or outside  
of the dial plate. Thus formed the instru-  
ment, when not in use, may be worn as an  
ordinary watch in the pocket, and when in  
use its size and shape readily admits of its  
being firmly held in the hollow of the hand  
and so as to be operated, if desired, by a  
finger of the hand holding it.

The works of the instrument may be held

by a disk lying against the back of the case  
on the inside and united by screws (*c*) to an  
interior front triangular frame (*c*). These  
“works” consist firstly of (say) three  
toothed wheels (*D*, *E*, *F*) pitched or their  
planes of rotation so disposed as to work  
independently of each other, yet so arranged  
and the two first wheels provided with cer-  
tain teeth or projections (*d*, *e*) as to admit  
of the occasional movement at regular inter-  
vals of the second wheel by the first wheel  
and, at still more distant intervals, of the  
third wheel by the second. The periods at  
which these occasional movements take place,  
the one wheel by the other, will depend upon  
the number of wheels employed or the num-  
ber of ordinary teeth in the several wheels  
and according to the kind or limit of count  
required to be registered, but it will suffice  
for the present purpose of explanation to  
indicate but three wheels and each of those  
wheels to have but ten ordinary teeth (*g*)  
and the two first wheels one outside tooth or  
projection (*d*, *e*,) so disposed as each time  
the latter round, in a whole revolution of  
the wheel to which it belongs, it will mesh  
with and cause to move the next wheel in  
succession the distance of a tooth, and this  
latter wheel again in turn be caused to move,  
each revolution it makes, the third or last  
wheel the distance of a tooth. Thus, these  
wheels (*D E F*) stand in relations of units,  
tens and hundreds, and their operation for  
registering count, it will be seen from the  
foregoing description, resembles that in use  
in gas meter and steam engine indicators  
and many other registering contrivances  
mostly receiving their action from auto-  
matic sources. The dial plate (*A*) too, is  
similarly marked with circles divided into  
ten parts corresponding with the number of  
ordinary teeth (*g*) in the wheels, numbered  
respectively from 0 to 9, and expressing  
units, tens, and hundreds, the forward ends  
of the spindles (*h*) of the several wheels be-  
ing provided with fingers (*i*) to indicate on  
said divided circles the movements of the  
several wheels and to register the same so  
that they can be read off on glancing at the  
dial. For each tally made, the first wheel  
(*D*) is caused to move the distance of one  
tooth, so that in a whole revolution of the  
first wheel ten tallies are counted, and for  
every ten tallies so registered, the finger of  
the second wheel (*E*) is moved one division,  
consequently in a whole revolution of the



second wheel one hundred tallies are registered, and as the third wheel (F) bears the same relation to the second wheel as the latter does to the first wheel, for a whole  
 5 revolution of the third wheel one thousand tallies are counted.

The instrument, as before mentioned, being held in the hollow of the hand, it is or may be operated by a finger of the same  
 10 hand made to press on a finger piece, button, or stud (G) which may be arranged to project through a slot in the rim of the case and which is attached to a plate (H) working  
 15 on a pivot (k) at one end and thrown outward by a spring (l), also having its stroke limited and carrying at its other end a pawl (m) acted on by a spring (n) and serving  
 20 on working the plate (H) inward by pressing inward the finger stud (G) to move the first wheel (D) the distance of a tooth in the direction of the count to that wheel indicated on the dial.

Such a hand instrument will enable a clerk to tally off goods in a most expeditious  
 25 and positively accurate manner, and by it he avoids all those inconveniences which attach to the ordinary method of performing that work and which are so prominently experienced in the dark or bad weather as pre-  
 30 viously adverted to; and as the instrument is of ordinary pocket compass or character, he may always carry it about him and having it constantly on hand in moving from wharf to wharf. All that it is required of  
 35 him to do to register a tally is to give a slight pressure with his finger on the finger stud (G).

Of course for every fresh series of tallies required to be registered, it will be necessary  
 40 for the operator to note the point or figure from which he starts on the dial, and to prevent confusion and facilitate count, it may be desirable to start from 0 on the first index. To do this, he must move the wheels  
 45 so as to adjust the index fingers to their places marked 0, and as to do this by working the finger stud (G) would be a tedious and time consuming operation, we make the  
 50 spindles (h) of the several wheels square at their back ends and cause them to project into or through suitable perforations (p) in the back (a) of the case so that any one, two, or all the wheels, according to the previous use or movement of them, may be set  
 55 back as described by simply inserting a key

resembling a watch key into the said perforations (p) and turning the key in gear with the spindles (h) of the wheels. Thus may the instrument, without opening the front glass cover or touching the fingers, be  
 60 adjusted with rapidity to its original set indicated by 0, and in order that this may be done with yet greater rapidity, the arrangement is such that it matters not whether the  
 65 wheels be moved forward or backward, but they may be turned either way whichever will bring their index fingers first to 0. This latter remark brings us to describe in conclusion a stop or brake (I) with which we  
 70 furnish each wheel. These brakes are each formed of a spring bar fast at their rear end and carrying at their front end a gag (s) which the spring bar causes to gear with  
 75 each wheel between two adjacent teeth thereof and so as to produce a friction on pressure on the wheel to prevent its being accidentally or too easily turned, but which on  
 80 the wheel being purposely turned readily rises or moves out of gear, by the action of the teeth of the wheels on it. This brake  
 85 then serves to insure accuracy in the count and obviate slip of the wheels, and in order that it may not prevent the wheels from being turned in either direction accordingly  
 90 as it is desired to move the wheels backward or forward to return the instrument to its original set as before named, the gag (s) of the brake is made of such curved or other  
 95 contour on its inner face as that the teeth of the wheel will alike move it out of gear whichever way the wheel is turned.

Having thus described our invention, we claim, as a new article of manufacture.

We claim the construction and general arrangement of a hand operating tally specifically as described, consisting of three in-  
 95 dexes and corresponding wheels to indicate count as specified, the whole being operated by a projecting stud (G) and spring brake (I) with its gag (s) for the purposes herein  
 100 set forth.

In testimony whereof we have signed our names to this specification before two subscribing witnesses.

P. D. RICHARDS.  
 FRED. N. THAYER.

Witnesses:

EUG. IDE SABLA,  
 HENRY HERBST.