

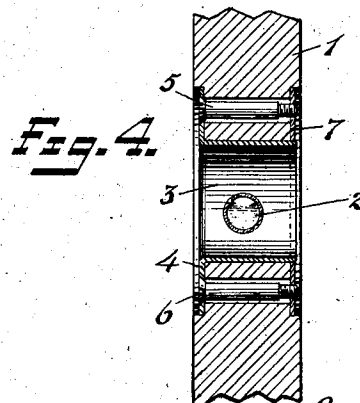
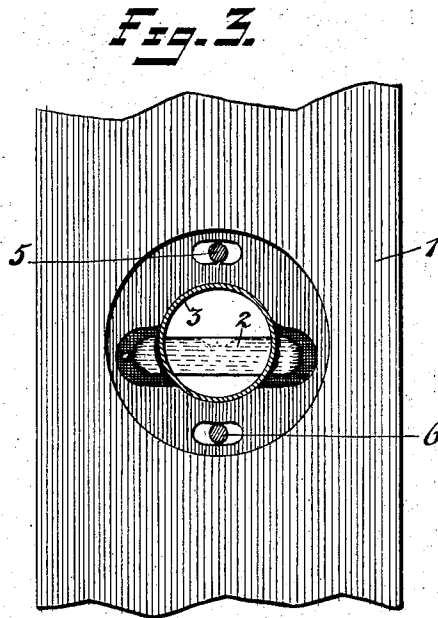
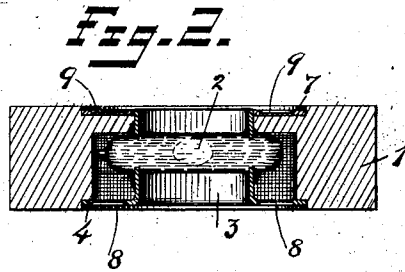
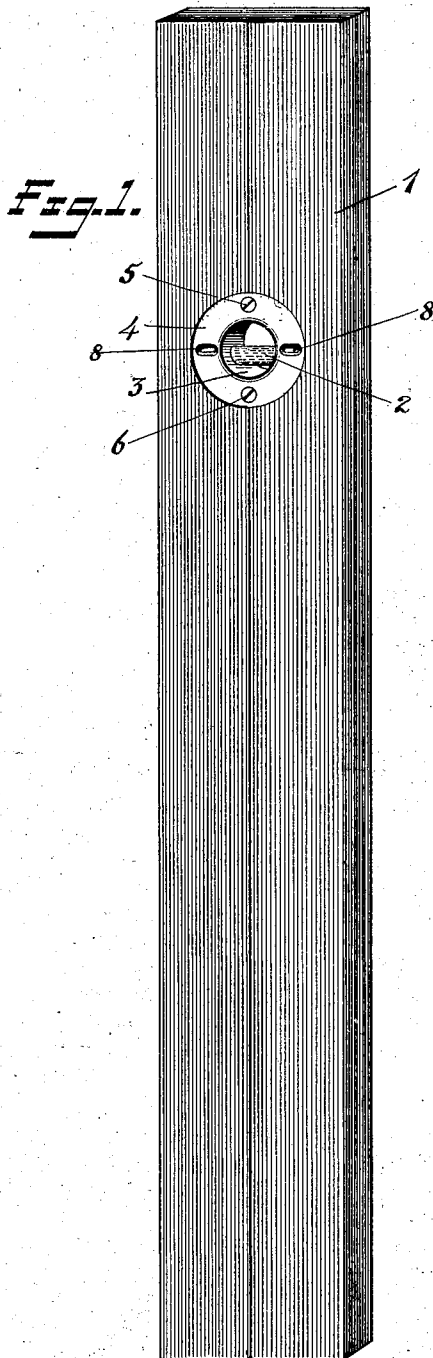
No. 760,587.

PATENTED MAY 24, 1904.

J. A. TRAUT.
LEVEL.

APPLICATION FILED-MAR. 8, 1904.

NO MODEL.



Witnesses
Geo. V. Rasmussen
R. H. Allen

Inventor
Justus A. Traut
By his Attorneys
Barth, Burmeister & Thibaut

UNITED STATES PATENT OFFICE.

JUSTUS A. TRAUT, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE
STANLEY RULE & LEVEL COMPANY, OF NEW BRITAIN, CONNECTICUT,
A CORPORATION OF CONNECTICUT.

LEVEL.

SPECIFICATION forming part of Letters Patent No. 760,587, dated May 24, 1904.

Application filed March 8, 1904. Serial No. 197,146. (No model.)

To all whom it may concern:

Be it known that I, JUSTUS A. TRAUT, a citizen of the United States, residing at New Britain, in the county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Levels, of which the following is a full, clear, and exact description.

My invention relates to improvements in levels.

The object of my invention is to provide a structure of simple and reliable character which may be readily adjusted when desired.

The invention consists in mounting a level-glass in a beam of suitable character in such a manner that it may be adjusted when desired by a simple movement, the parts being then clamped securely in place. The details will be more clearly seen on an inspection of the accompanying sheet of drawings.

Figure 1 is a perspective view of a level embodying the improvements of my invention. Fig. 2 is a section and plan view of the same. Fig. 3 is a fragmentary front view of a level-beam, the level being sectioned immediately back of the front plate. Fig. 4 is a vertical section of those parts of the construction which embody the improvements of my invention.

1 indicates a beam or block to which the level of my construction is adapted to be attached.

2 is the level-glass of suitable construction containing a suitable fluid.

3 is a frame or support for the level-glass 2. This frame or support is preferably in the form of a cylinder and is provided with holes on opposite sides to receive the ends of the level-glass, the latter being secured in said holes in any well-known manner, so that as the frame is moved or adjusted the level-glass will move to a corresponding extent and be adjusted to correspond with the adjustment of said frame.

4 is a disk formed as the flange of the cylinder 3.

5 and 6 are screws for holding the parts in place.

The level-beam has a hole bored or cut

through it to permit of the insertion of the cylinder 3. Recesses are formed extending from this central hole to allow for the ends of the level-glass 2. The beam is preferably countersunk to allow for the thickness of the flange 4.

In order that the level may be adjusted in position, the holes through which the screws 5 and 6 pass are elongated, as shown in Fig. 3. For the same reason the recesses which allow for the ends of the level-glass are extended, as shown.

7 is an annular disk or plate which corresponds to the flange 4 and is let into the rear side of the level-beam. The screws 5 and 6 take into this flange 7, and thus clamp the parts securely together.

To enable one to adjust the level readily, I have formed a recess, as at 8, in the outer flange 4. When the screws 5 and 6 are loosened, a screw-driver or other tool may be applied to a recess in the flange for slightly twisting the level in one direction or the other. Similar recesses, as at 9, are preferably provided in the rear flange 7, so that the parts may be adjusted without binding.

The advantages of this construction are particularly its simplicity and general efficiency, which, moreover, permits of a quick and reliable method of adjustment.

What I claim is—

A level comprising a beam having an opening therethrough, a frame located in said opening, a level-glass supported thereby, a flange coacting with said frame at each end thereof and substantially flush with the outer surface of said beam, said beam having elongated openings, and screws passing through said elongated openings and connecting said flanges for clamping the same adjustably in position.

Signed at New Britain, Connecticut, this 5th day of March, 1904.

JUSTUS A. TRAUT.

Witnesses:

W. J. WORAM,
V. G. HOFFMAN.

