No. 858,014. PATENTED JUNE 25, 1907.

J. B. PAIGE.

SCALE LEVER.

APPLICATION FILED OCT. 10, 1906.

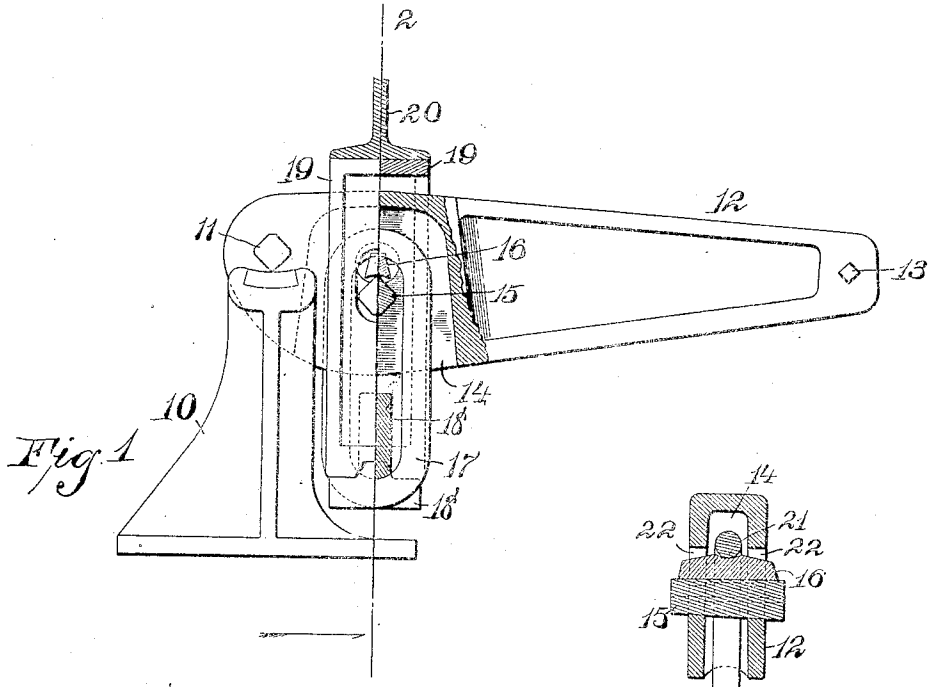


Fig. 1

Fig. 2

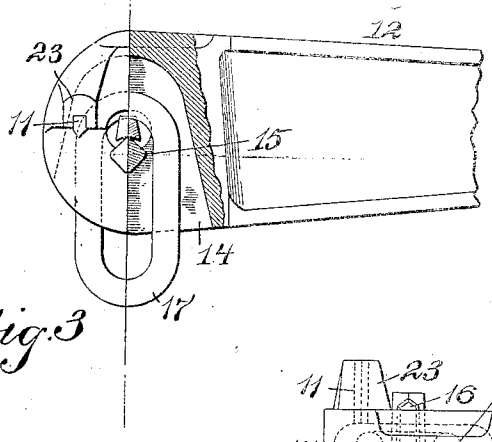


Fig. 3

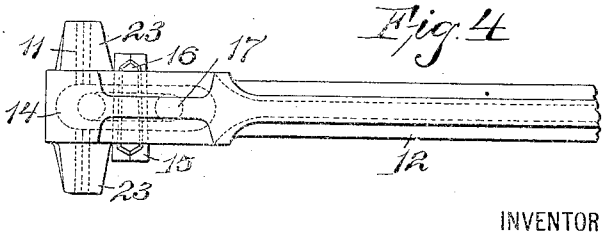


Fig. 4

WITNESSES:

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SCALE-LEVER.

No. 868,014. Specification of Letters Patent. Patented June 28, 1907.

Application filed October 19, 1905. Serial No. 283,213.

To all whom it may concern:

Be it known that I, JOSEPH B. RAINE, a citizen of the United States, residing at East Rutherford, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Scale-Levers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to a scale-lever and one that is particularly adapted for scale-levers on railroad platform scales.

It is designed to provide a scale-lever that combines strength with a minimum amount of space, and is arranged to make a neat appearance and also be well inclosed so as to make a good finish.

The invention is illustrated in the accompanying drawings, in which

Figure 1 is a side view of the scale-lever and its support, part of the lever and support being shown in section. Fig. 2 is a section on line 2, 2, in Fig. 1. Fig. 3 is a view similar to Fig. 1, but without the support and also being partly broken away to show the interior. Fig. 4 is a top view of the structure shown in Fig. 3.

I may use any usual support 10 for the scale-lever 12, the scale-lever resting on the knife-edge 11, and having on its opposite end the knife-edge 18 in engagement with the indicating part of the scale. The scale-lever is provided with a recess 14, and across this recess is arranged the knife-edge 15 which supports the block 16 over which the loop link 17. The knife-edge 15 is made in one piece which makes a strong structure and provides a solid support. Passing through the link and resting on the bottom of the saddle 13, and resting on the top of the wall flanking the scale-lever is the pin 19 on which is secured, in any suitable manner, the platform supporting element 20. The block 16 is preferably depressed, as at 21, for the engagement of the link 17 and is passed into its place through the perforations 22 in the walls of the scale-lever on either side of the recess 14. This structure is very compact, allows a ready changing of the parts, and a peculiar structure of the recess 14 and the transverse perforations 22 make a structure that is extremely desirable in the class of scale to which it applies. The scale-lever, as it is constructed herein, combines the maximum strength with a minimum amount of space, and the recess 14 opening downward and having the top portion covered, provides a protection from water, grit and dirt that leak down through a scale of this kind onto the knife-edges and the link.

In Fig. 3 I show a structure modified so as to bring the knife-edges 11 and 15 closer together, that is, close enough to have the line of the knife-edge intersect the link 17. This will be evident from Fig. 3. In such a structure the recess extends beyond the knife-edges and the bosses 22 project from the sides of the scale-lever, and the knife-edges 11 are arranged in them. This forms sufficient bearing surface, and the knife-edges 11 are cut out and do not pass across through the recess 14.

Having thus described my invention, what I claim is—

1. The construction of a scale-lever comprising a flat body portion arranged vertically a widened portion intermediate of its ends and integral therewith, the widened portion having a recess opening downwardly and closed at the top, the side walls of the recess having aligned perforations, and a block arranged in the perforations, with a link arranged in the recess and having one end suspended on the block.

2. A scale-lever comprising a body portion having knife-edges on its ends, a widened portion intermediate of the ends and integral with the body portion, the widened portion having a downwardly opening recess therein, the side walls of the recess having aligned perforations, a knife-edge below the perforations, and a block on the knife-edge adapted to pass through the perforations.

3. A scale-lever for platform scales having knife-edges for engaging the support and the indicating mechanism, a recess in the scale-lever, the side walls of the recess having per-

forations arranged in line, a knife-edge projecting into the perforation, a block resting on the knife-edge and projecting through the perforations, a link straddling the block, a saddle arranged on the bottom of the link, and a yoke supported by the saddle and acting to support a platform scale.

In testimony, that I claim the foregoing, I have hereunto set my hand this seventh day of September, 1906.

JOSEPH B. PAIGE.

Witnesses:
CHAS. J. LA FORGE,
WILLIAM E. BOEHCK.