Jan. 10, 1939. L. J. COLENBACK 2,143,186

POISE

Filed Oct. 12, 1937

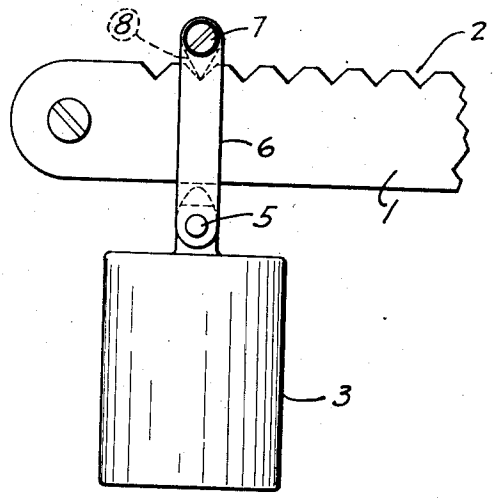


Fig. I

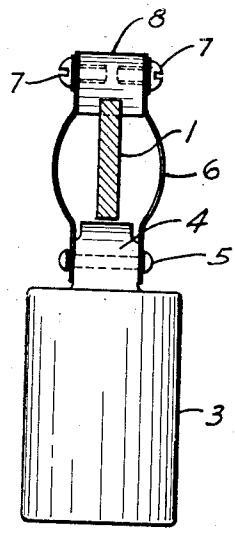


Fig. II

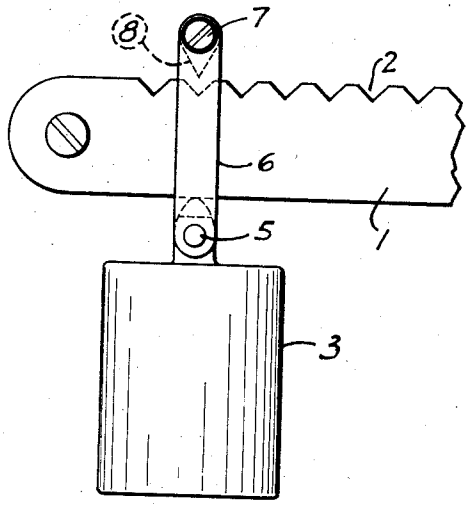


Fig. III

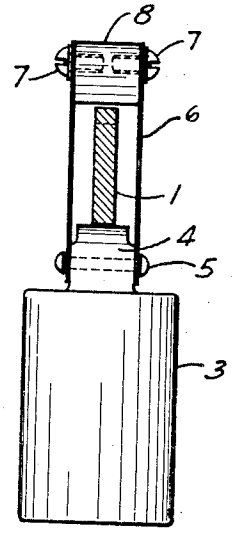


Fig. IV

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POISE

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3 Claims. (Cl. 265—49)

This invention relates to weighing scale poises, and particularly to poises which hang from knife-edges positioned in notches in beams.

One of the objects of the invention is to provide a reliable lock to prevent accidental movement of the supporting knife-edge from one notch to another, while at the same time it permits the poise to swing freely from the knife-edge.

A further object of the invention is to provide a poise lock which may be released by grasping the poise hanger, whereupon the poise may be moved readily along the beam without other change in its position.

Other objects and advantages will be apparent from the following description, in which reference is had to the accompanying drawing illustrating a preferred embodiment of my invention and wherein similar reference numerals designate similar parts throughout the several views.

In the drawing:—

Figure I is a front elevational view of a poise and poise hanger embodying my invention, a fragment of a poise supporting beam also being shown;

Figure II is a side elevational view of the poise illustrated in Figure I, the poise supporting beam being shown in section;

Figure III is a front elevational view of the poise and hanger illustrated in Figure I, showing the hanger in lock releasing condition, a fragment of the poise supporting beam also being shown; and

Figure IV is a side elevational view of the poise and hanger illustrated in Figure III, with the hanger in lock releasing condition, the poise supporting beam being shown in section.

Referring to the drawing in detail, the poise of my invention is shown as applied to a beam 1 having poise locating notches 2 along its upper edge. The poise body 3 is provided with an upstanding lug 4 to which are secured, by means of a rivet 5, a pair of resilient normally-bowed metallic strips 6; and fastened, by means of screws 7, between the upper ends of the metallic strips 6 is a knife-edge pivot 8.

So long as the bowed strips 6 are not pressed toward each other the poise hangs freely from the knife-edge of the pivot 8 which is seated in one of the notches 2. The distance between the upper side of the lug 4 and the knife-edge of the pivot 8 is less than the vertical distance from the bottom of the beam 1 to the top of the beam at its unnotched portions; hence, it is impossible for the knife-edge of the pivot 8 to leave the particular notch in which it is seated unless the bowed strips 6 are purposely straightened.

When it is desired to move the poise along the beam 1 the operator grasps the strips 6 with his thumb and finger and presses them toward each other, thus straightening them sufficiently toward the condition in which they are illustrated in Figures III and IV to enable them to lift the knife-edge above the level of the tops of the portions of the beam between the notches 2, whereupon the poise may be readily shifted along the beam.

The embodiment of my invention herein shown and described is to be regarded as illustrative only, and it is to be understood that the invention is susceptible to variation, modification and change within the spirit and scope of the subjoined claims.

Having described my invention, I claim:

1. In a device of the class described, in combination, a poise body, a lug formed on said poise body, a pair of resilient outwardly-bowed metaltic strips secured at their lower ends to said lug, a knife-edge pivot secured between the upper ends of said strips, and a notched beam extending between said lug and said pivot, the knife-edge of said pivot engaging one of the notches of said beam, the distance from the top of said lug to the knife-edge of said pivot being less than the distance from the bottom to the top of the portions of said beam between its notches, said bowed strips being adapted when pressed toward each other to be lengthened sufficiently to enable said knife-edge pivot to be moved from one notch to another along said beam.

2. In a weighing scale poise, in combination, a poise body, a hanger connected to said poise body, and a knife-edge pivot supported by said hanger and adapted to engage in notches in a beam, said hanger including a pair of resilient bowed strips adapted to be manually straightened for the purpose of lengthening said hanger.

3. In a weighing scale poise, in combination, a poise body, a notched beam, a member adapted to engage the notches of said beam, and a resilient hanger connecting said poise body and said member, said hanger consisting of bowed strips adapted to be elongated sufficiently to permit disengagement of said member from the notches of said beam.

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