

Precision Balance 1

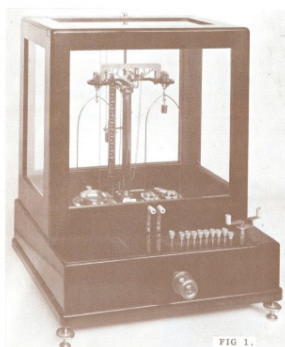


FIG 1.

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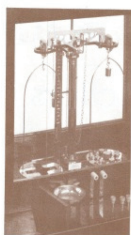


FIG 2.

This diamond balance was made c1930 by Haigis of Onstmettingen, Württemberg, Germany. The length of the beam is 140mm and the dimensions of the case 430 x 230 x 560mm high, (16.9"x 9"x 22") Fig 1.

The diamonds are put in the pan without opening the case, by a complex arrangement of travelling pan and trapdoor. The mechanism is operated by turning the two cranked levers on the right of the case. When the first lever is turned clockwise, a cross-shaped 'transporter' rises up through a cross-shaped hole in the pan carrier, Fig 2. The transporter lifts the pan off the carrier. When the second lever is turned clockwise, the transporter carries the pan forwards through a trapdoor which opens automatically in the front of the case, Fig 2. Diamonds are then placed in the pan. Turning the levers anti-clockwise returns the pan to the carrier for weighing.

Buttons on the front of the case operate the weights. Each weight is suspended above the weight pan by a rod which projects through a hole in the pan. When a button is pressed it lowers the rod and deposits the weight on the pan. ➤

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Abstract

Remarks