



Weights and Measures  
(National Standards)  
Act 1960-1966

Weights and Measures  
(Patterns of Instruments)  
Regulations

COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

## *Certificate of Approval*

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CERTIFICATE NUMBER 6/9C/5

This Certificate cancels Certificate No 6/9C/5 dated 24th August, 1970. \*

In respect of the pattern of

Mercury Model 211D Self-indicating Platform Weighing Machine and Variants.

Submitted and  
manufactured by: Mercury Scale Co. Pty. Ltd.,  
32 Dew Street,  
Thebarton,  
South Australia. 5031.

This is to certify that the pattern and variants of the instrument illustrated and described in this Certificate have been examined by the National Standards Commission under the provisions of the abovementioned Regulations and have been approved as being suitable for use for trade.

The pattern and variants 1 and 2 were approved on 8th June, 1967, and variants 3, 4 and 5 were approved on 30th April, 1971.

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\*NOTE: Figures 6/9C/5 - 1 to 7 of the previous issue form part of the Certificate and must be retained.

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Cont'd over

Approval was granted on condition that all instruments made in conformity with this Certificate:

1. are appropriately marked NSC No 6/9C/5; and
2. comply with the General Specifications for Weighing and Measuring Instruments to be Used for Trade.

This Certificate comprises:

Pages 1 to 4 dated 11th May, 1971.

Figures 6/9C/5 - 1 to 7 dated 24th August, 1970.

Date of issue 11th May, 1971.

Signed



A person authorised by the Commission to sign Certificates under the abovementioned Regulations.

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### DESCRIPTION OF PATTERN

The pattern is of a self-indicating platform weighing machine of 100 lb capacity (see Figure 1) having  $\frac{1}{4}$  lb graduations.

The basework lever system (see Figure 2) consists of two second-order main levers (see Figure 3) supported from swinging links at the four corners of a cast framework. The horizontal movement of the levers is restricted by a limiting screw on one side and a small cleat and limiting screw on the other (see Figures 4a and 4b). The levers are linked by a circular bearing (see Figure 5) and an extension of the front lever is coupled to the pullrod which passes up the headwork support column. The platform is mounted on the load knife-edges of the main levers through self-aligning bearings shown in Figure 6. All lever knife-edges are force-fitted to machined tapered holes in the levers.

The headwork consists of a spring-resistant mechanism (see Figure 7) housed in a circular chart housing. The spring-resistant mechanism has two pairs of oppositely wound springs of temperature-stable material mounted directly between a bar attached to the pullrod and a zero adjusting bar. Attached to the pullrod bar is a pivoted bronze rack kept in mesh with a hardened steel pinion by a guide pin and spring; the pinion drives the indicator spindle of hardened steel running in ball bearings. Oscillation of the pointer is damped by two air dashpots.

### DESCRIPTION OF VARIANTS

1. In other capacities up to 300 lb or 130 kg.
2. With wheels fitted to the basework frame.
3. With two single springs replacing the two pairs of oppositely wound springs in the resistant mechanism.
4. With two pairs of springs in parallel replacing the two pairs

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of oppositely wound springs in the resistant mechanism.

5. With one or two oil dashpots.



# NATIONAL STANDARDS COMMISSION

## NOTIFICATION OF CHANGE

### VARIOUS CERTIFICATES OF APPROVAL

The following changes are made to the approval documentation for the approvals listed overleaf

submitted by Mercury Weighing and Control Systems Pty Ltd  
32 Dew Street  
Thebarton SA 5031.

In the Certificates and Technical Schedules listed, the following changes should be made:

- 1) The submitter should be changed to read;  
A & D Mercury Pty Ltd  
(the address remains unchanged)
  
- 2) Any Mercury instrument or component of an instrument approved in the documentation, may now also be known as "AND Mercury" or similar.

Signed

Executive Director

APPROVAL      PATTERN**TYPE:** weighing instruments counter scales6/3/007      Model 92  
6/3/008      Model 131**TYPE:** counter machines semi-self-indicating

6/4A/012      Model 304A

**TYPE:** counter machines freely-suspended < 30 kg (spring scales)

6/5/011      Model 211 DA

**TYPE:** weighing instruments non-self-indicating6/9A/001      Models 692 and 682  
6/9A/004      Model 522D  
6/9A/007      Model 211  
6/9A/008      Model 600**TYPE:** weighing instruments self-indicating6/9C/005      Model 211D  
6/9C/013      Up to 2500 lb or 1200 kg  
6/9C/066      Model 522 AL  
6/9C/067      Model SM100/479/522D  
6/9C/081      Model SB-LP 1200  
6/9C/088      Model 522D LT-10K**TYPE:** weighbridges self-indicating6/10B/040      Model WB-LT  
6/10B/045A      Model RVB-H20**TYPE:** automatic weighing instruments (except belt conveyors)

6/14B/012      Model HSD automatic hopper

**TYPE:** overhead weighing instrument (suspended load or receptor)6/18/005      With 211DA headwork  
6/18/017      Model OHT 500**TYPE:** digital indicatorsS114      Model 579  
S128      Model 1300  
S132      Model 900  
S161      Model AD4316  
S199      Model AD-4321**TYPE:** load cellsS117      Interface model SM25-12 kg  
S163      Transducers model B5112.1K  
S221      HBM model TRT-50 (Mercury model TRT3K-50)

FIGURE 6/9C/5 - 1



Mercury Model 211D

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FIGURE 6/9C/5 - 2

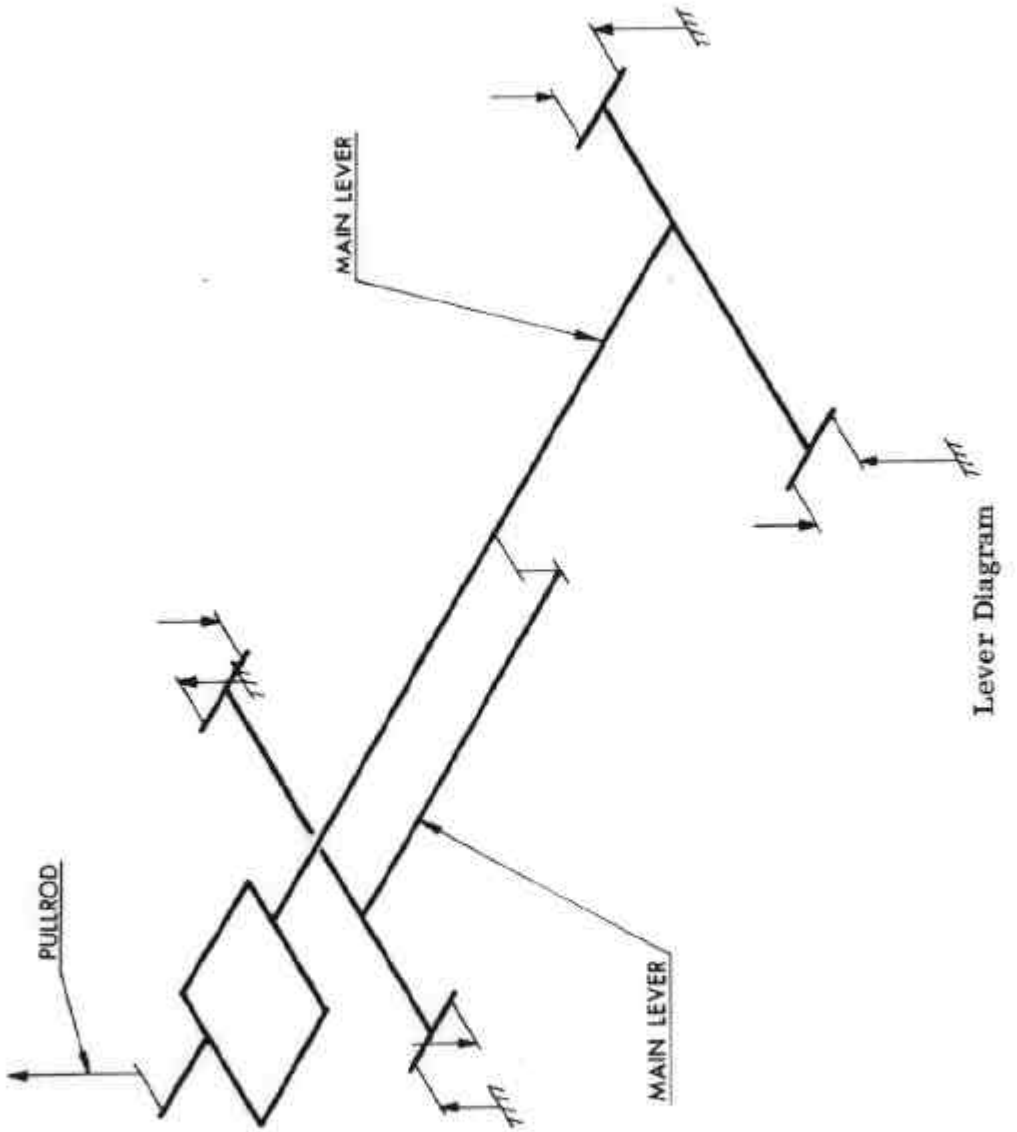
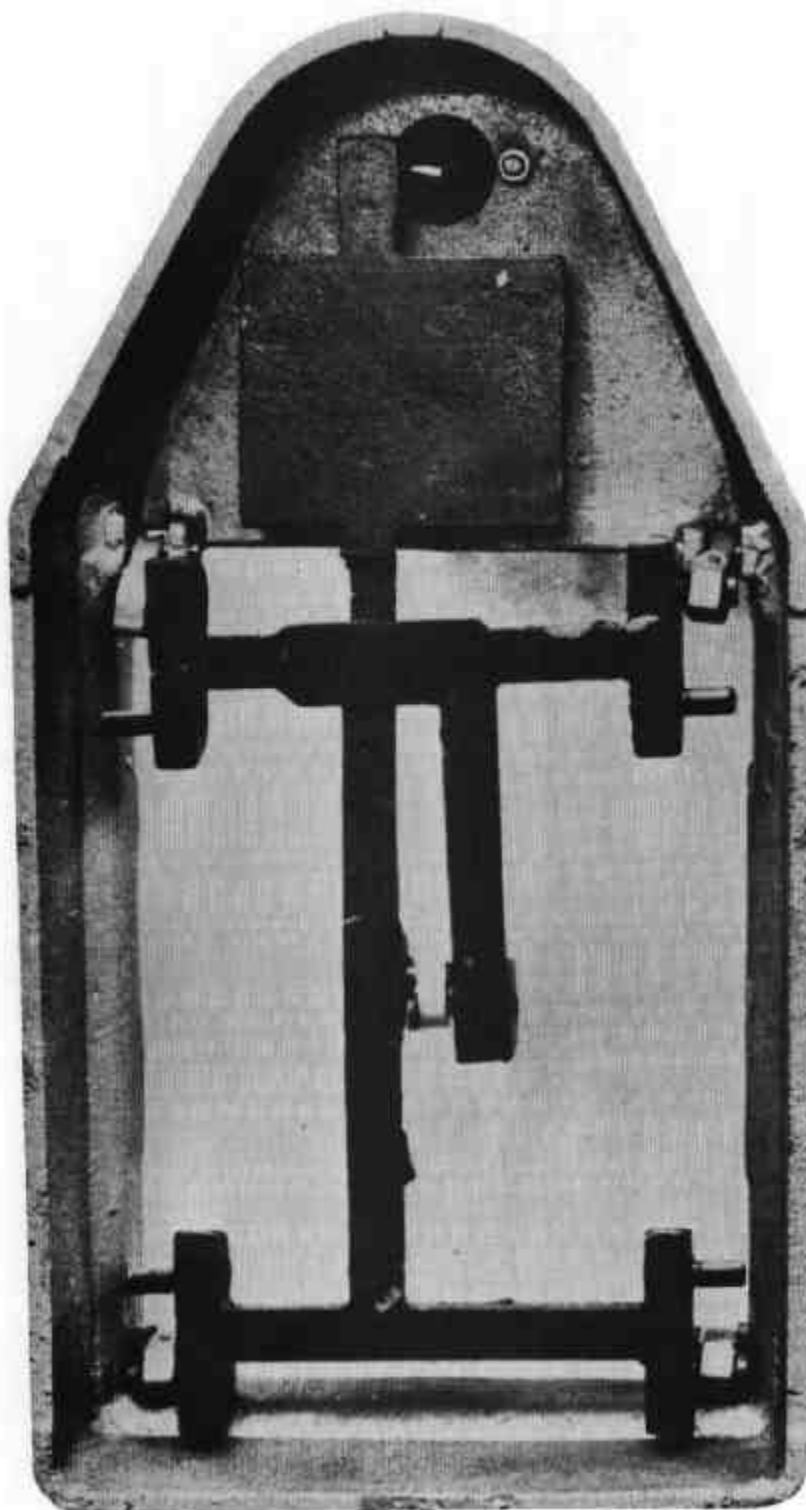




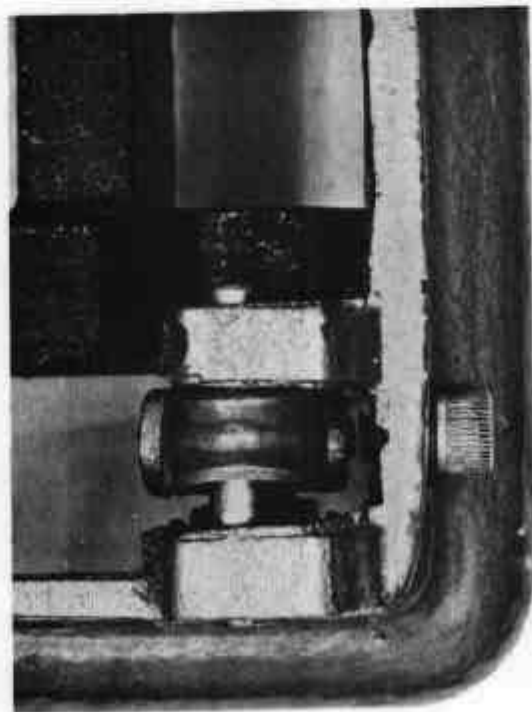
FIGURE 6/9C/5 - 3



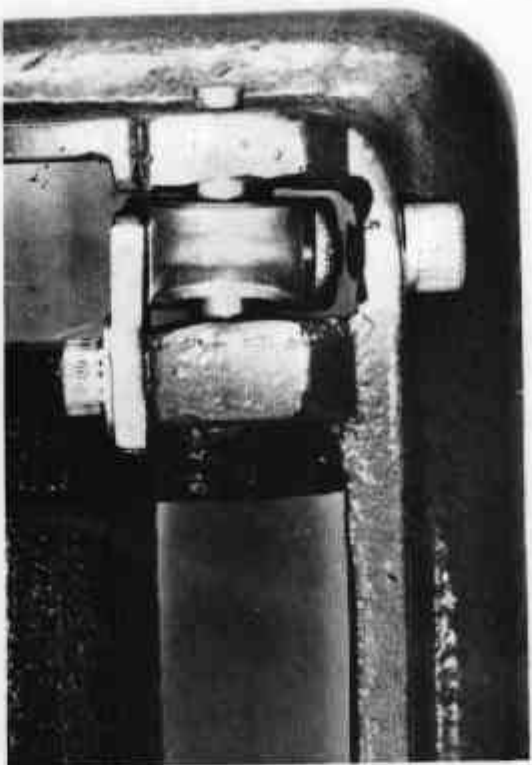
Basework

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FIGURE 6/9C/5 - 4



(a)

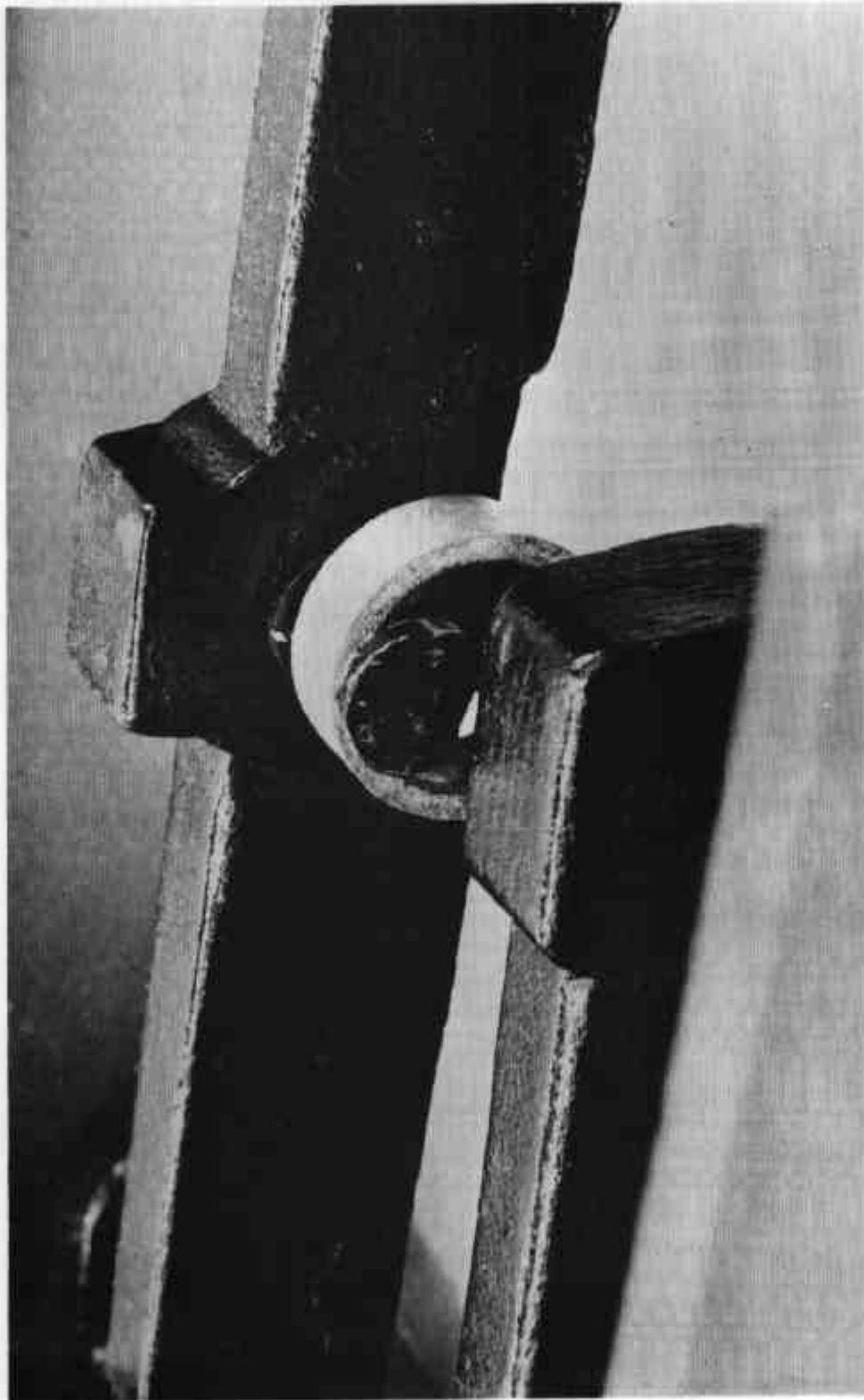


(b)

Platform Stops

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FIGURE 6/9C/5 - 5



Main Lever Coupling

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FIGURE 6/9C/5 - 6

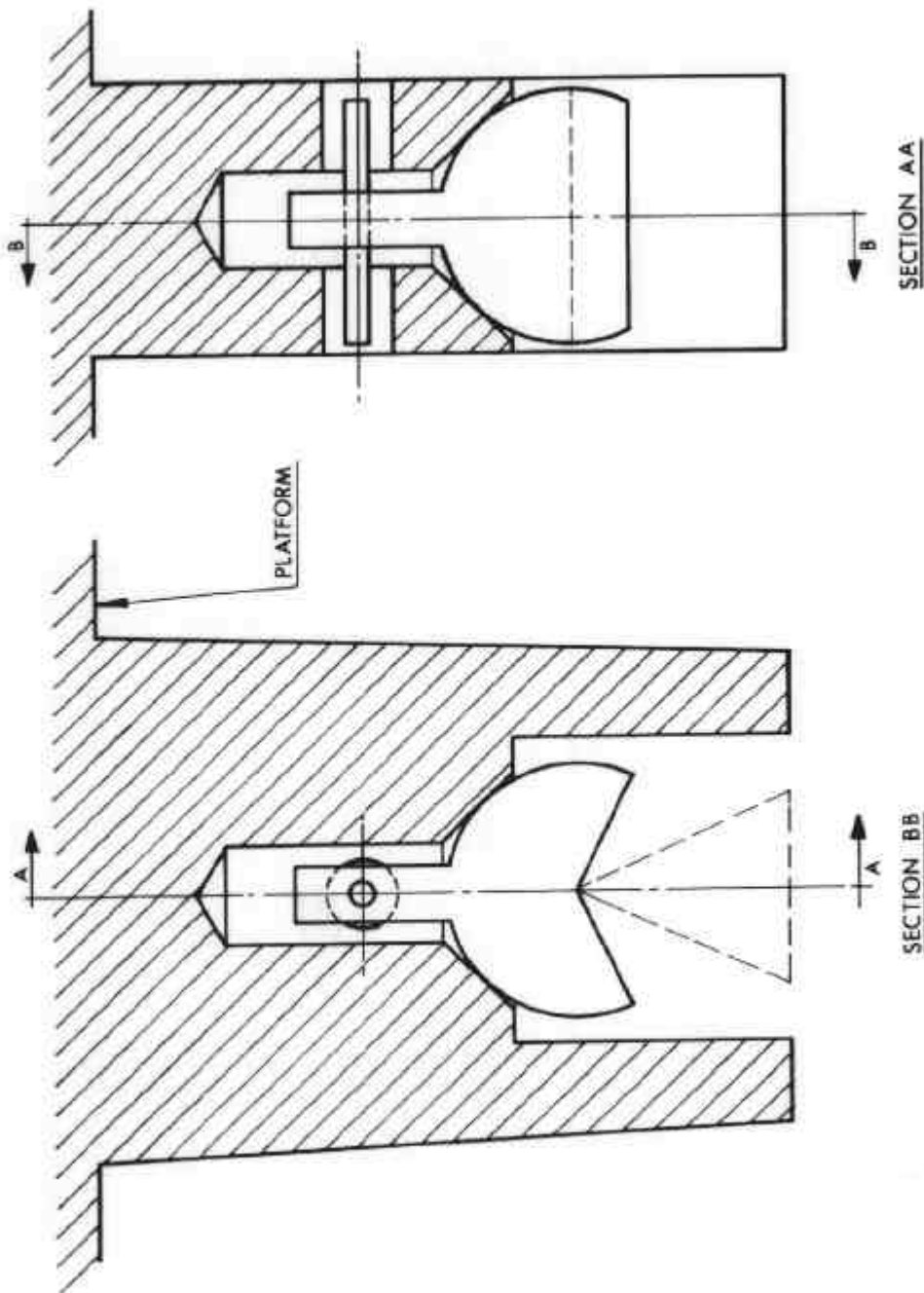
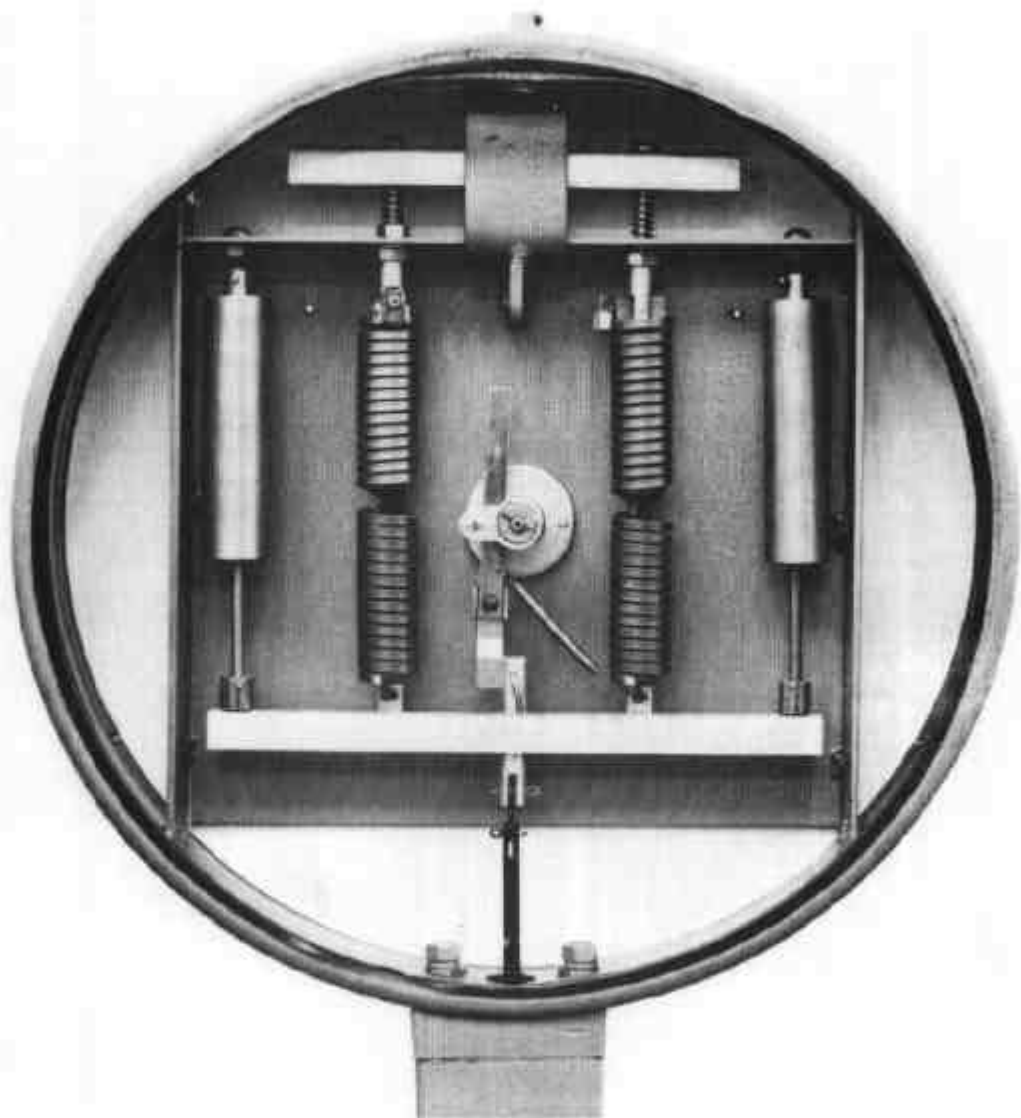


FIGURE 6/9C/5 - 7



Headwork - Resistant Mechanism

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