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CERTIFICATE OF APPROVAL No 6/18/5

This is to certify that the patterns of the
Mercury (Overhead-track) Weighing Instrument with Model 211DA Headwork
submitted by Mercury Scale Co. Pty Ltd,
32 Dew Street,
Thebarton, South Australia, 5031,

have been approved under the Weights and Measures (Patterns of Instruments)
Regulations as being suitable for use for trade.

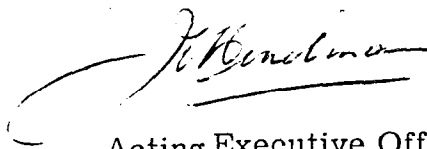
Date of Approval: 9 November 1977

The patterns are described in Technical Schedule No 6/18/5, and in drawings
and specifications lodged with the Commission.

The approval is subject to review on or after 1 December 1978.

All instruments conforming to this approval shall be marked with the
approval number "NSC No 6/18/5".

Signed



Acting Executive Officer

22/12/77



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/18/5

Pattern: Mercury (Overhead-track) Weighing Instrument with Model 211DA Headwork

Submittor: Mercury Scale Co. Pty Ltd,
32 Dew Street,
Thebarton, South Australia, 5031.

Date of Approval: 9 November 1977

All instruments conforming to this approval shall be marked "NSC No 6/18/5".

Description:

The pattern (see Figure 1) is a self-indicating weighing instrument. It comprises an overhead-track lever mechanism (see Figure 2) and a headwork with a spring-resistant mechanism (see Figure 3).

The headwork comprises:

1. Headwork cabinet installed in a fixed position.
2. Main headwork lever — first-order lever, fitted with a dashpot, transfers the load to the resistant mechanism (see Figure 4).
3. Spring-resistant mechanism — suspended from adjustable levers which pivot, allowing the zero adjuster to increase or decrease the force on the resistant mechanism (see Figure 4). A spring-loaded rack drives the indicator over a weight reading face marked with 500 graduations.

The basework, which is approved for loads up to 250 kg (see Figures 2 and 5), comprises a live weighing rail of up to 1,3 metres in length attached to a yoke at each end and suspended from two main levers which are in turn supported on a fixed frame. The live rail is aligned with the fixed rails by two links at each end of the live rail. A link connects the two main levers together and a second link connects the

end of one main lever to a transfer lever.

The weight reading face is marked, for example:

(III)

Max	=	250 kg
Min	=	25 kg
d = e	=	0,5 kg

The approval includes:

1. The weight reading face on both sides of the instrument.
2. The main lever being a second or third-order lever and arranged so that the force on the pullrod is downward.
3. Other Commission-approved baseworks replacing the basework described in the pattern, provided that -
 - (a) the basework is of an instrument conventionally known as a platform weighing machine, weighbridge or hopper scale, etc., where the headwork and basework are separate assemblies connected by a mechanical linkage;
 - (b) the capacity of the instrument is not more than the capacity approved for the basework;
 - (c) a levelling device and an indicator are fitted, except for instruments installed in a fixed position, or instruments which satisfy the following accuracy requirements and indication limits when tilted to a slope of 1 in 20 in any direction.

Accuracy Requirements

± 0,5e for loads between zero and 500e inclusive.

Indication Limits

- (i) Tilting at no-load — the zero indication does not vary more than 2e when tilted to a slope of 1 in 20, the zero being first adjusted in the reference (level) position; and
- (ii) Tilting when loaded — the indication does not vary

more than e when tilted to a slope of 1 in 20, the indication at zero being adjusted in the reference position before tilting and in the tilted position before reloading;

(d) the instrument is marked:

"Approval Numbers

Headwork NSC No 6/18/5
Basework NSC No



25/3/88

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 submittor 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

APPROVALPATTERN

TYPE: weighing instruments counter scales

6/3/007 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-indicating

6/9A/001 Models 692 and 682

6/9A/004 Model 522D

6/9A/007 Model 211

6/9A/008 Model 600

TYPE: weighing instruments self-indicating

6/9C/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-indicating

6/10B/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 indicators

S114 Model 579

S128 Model 1300

S132 Model 900

S161 Model AD4316

S199 Model AD-4321

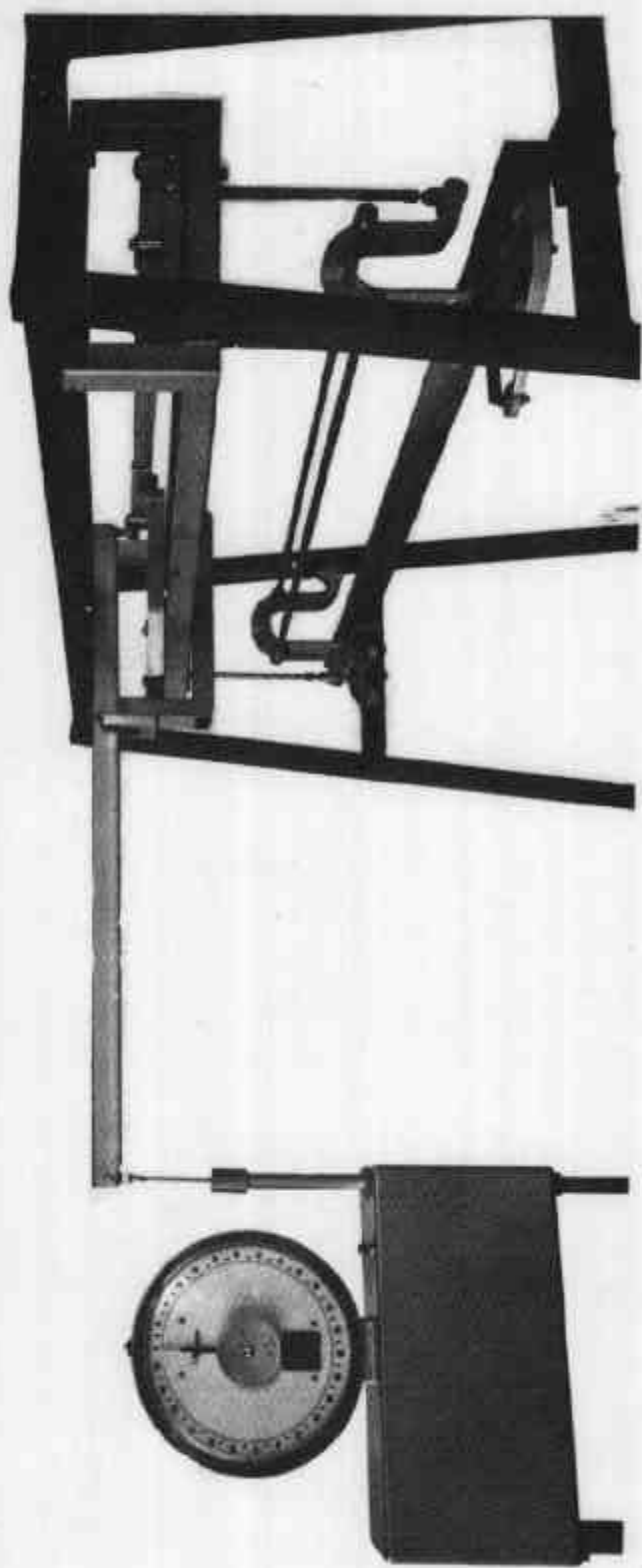
TYPE: load cells

S117 Interface model SM25-12 kg

S163 Transducers model B5112.1K

S221 HBM model TRT-50 (Mercury model TRT3K-50)

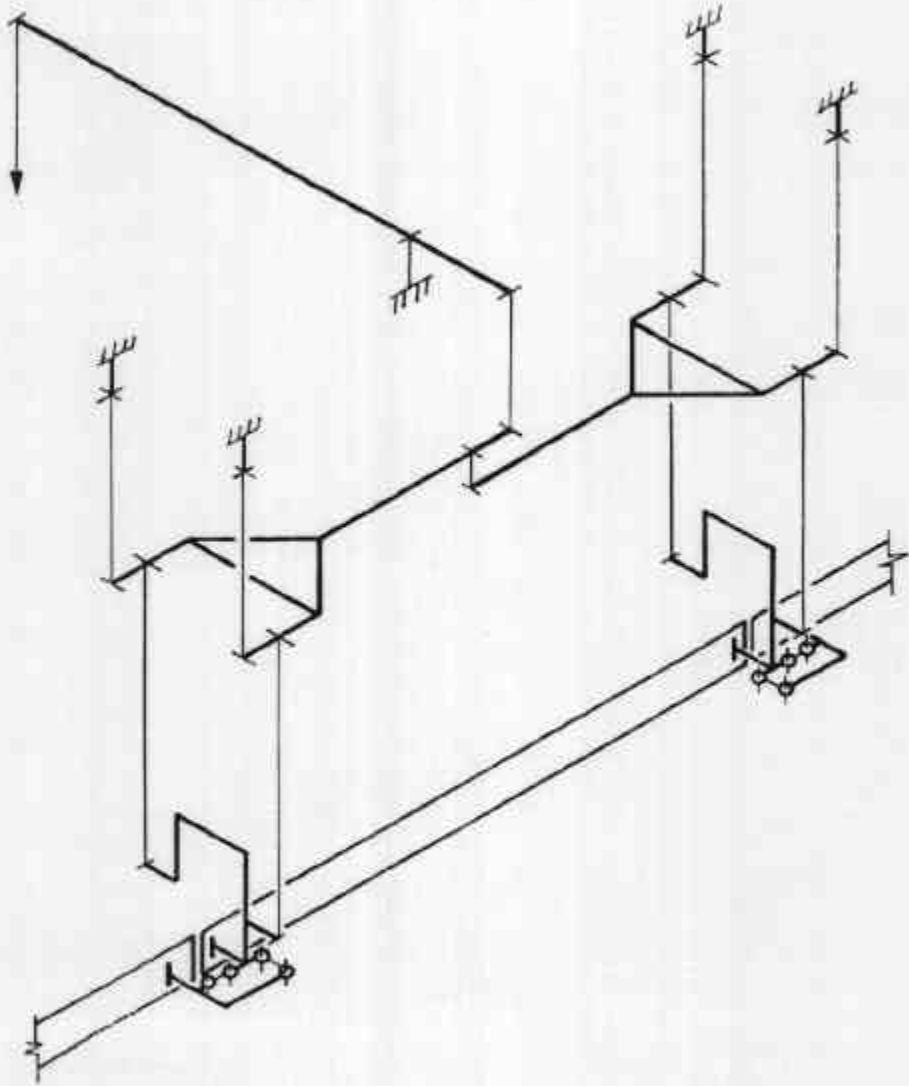
FIGURE 6/18/5 - 1



Mercury 211DA Weighing Instrument

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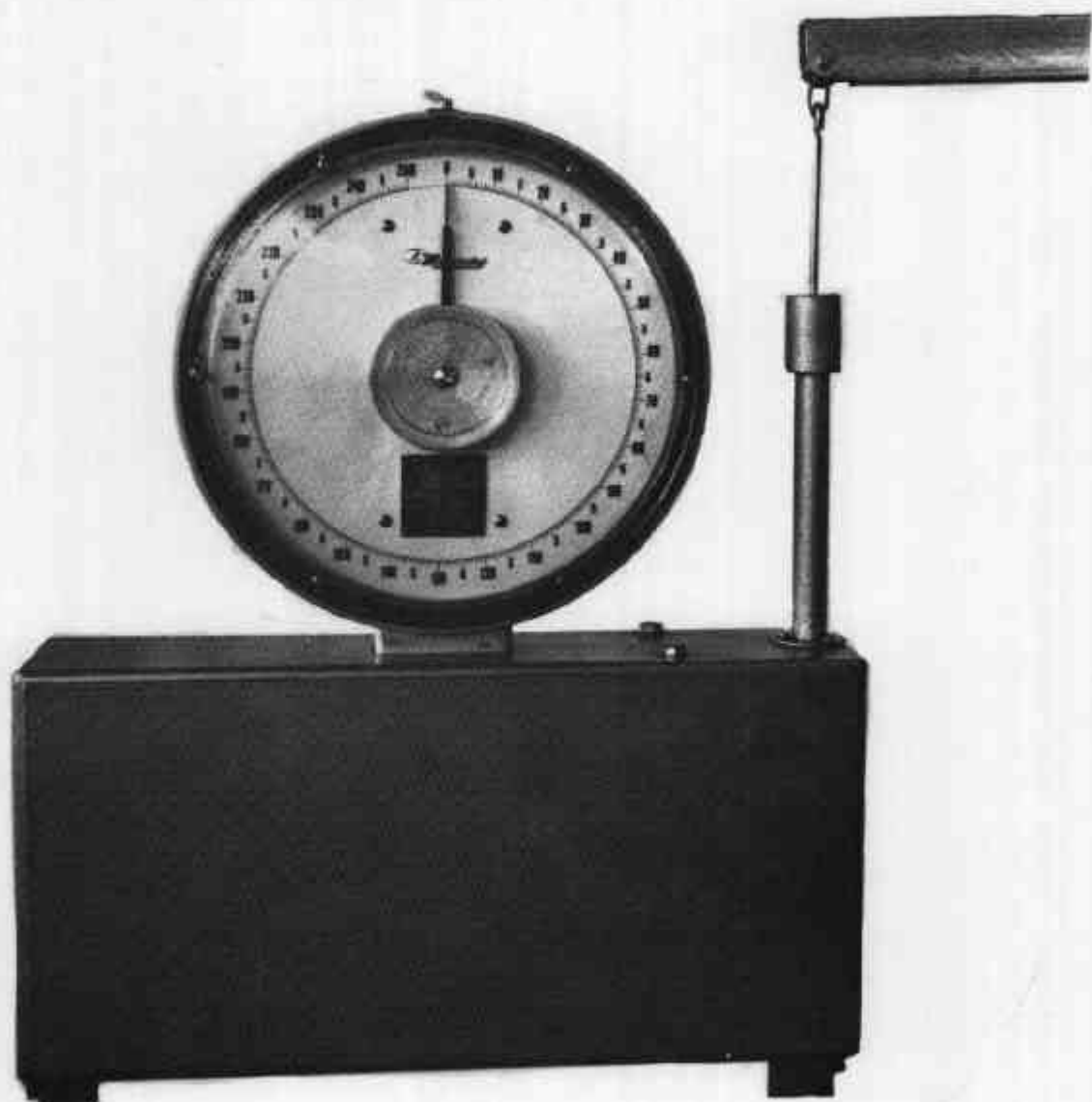
FIGURE 6/18/5 - 2



Mercury 211DA — Schematic Drawing of
Lever Mechanism

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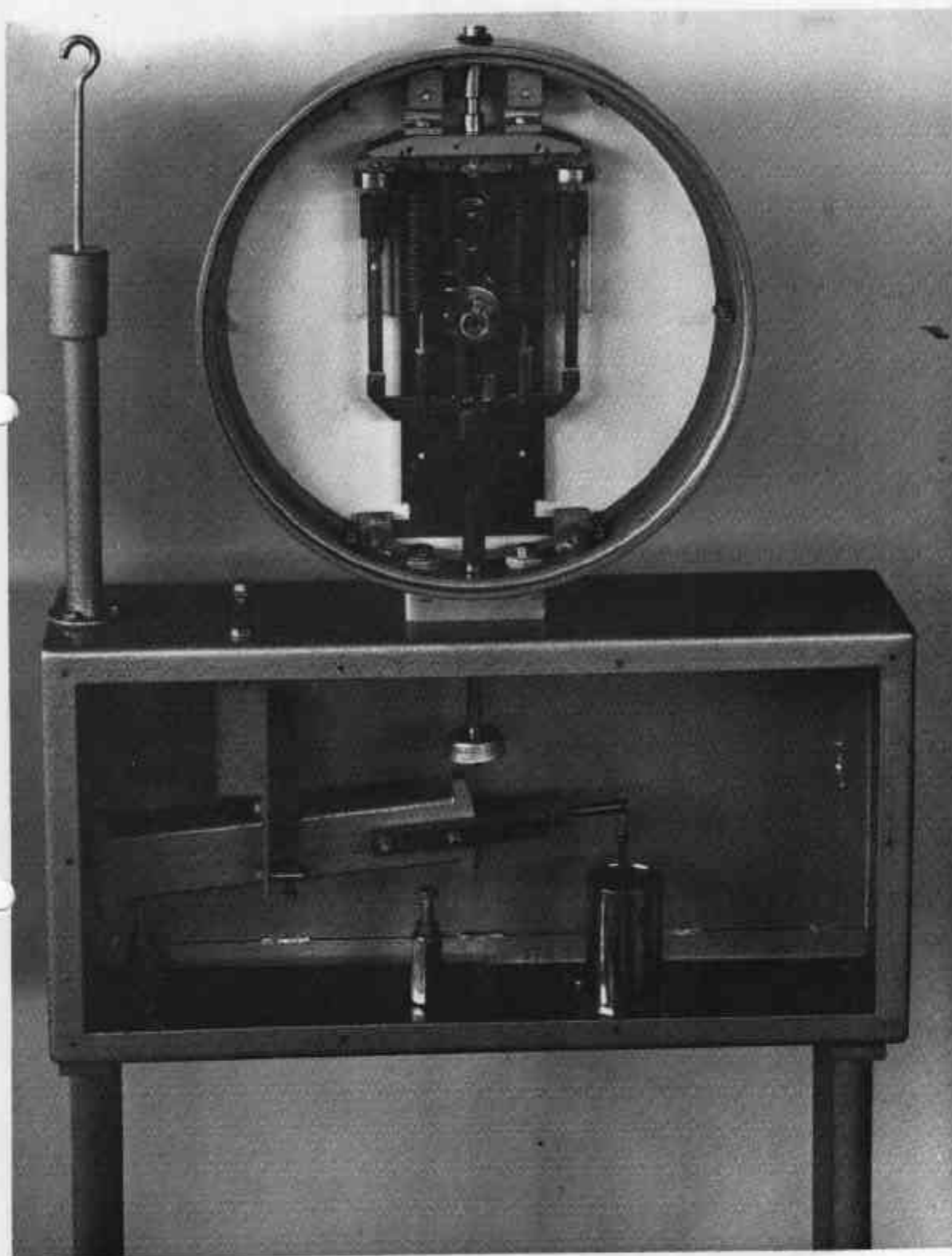
FIGURE 6/18/5 - 3



Mercury 211DA — Headwork

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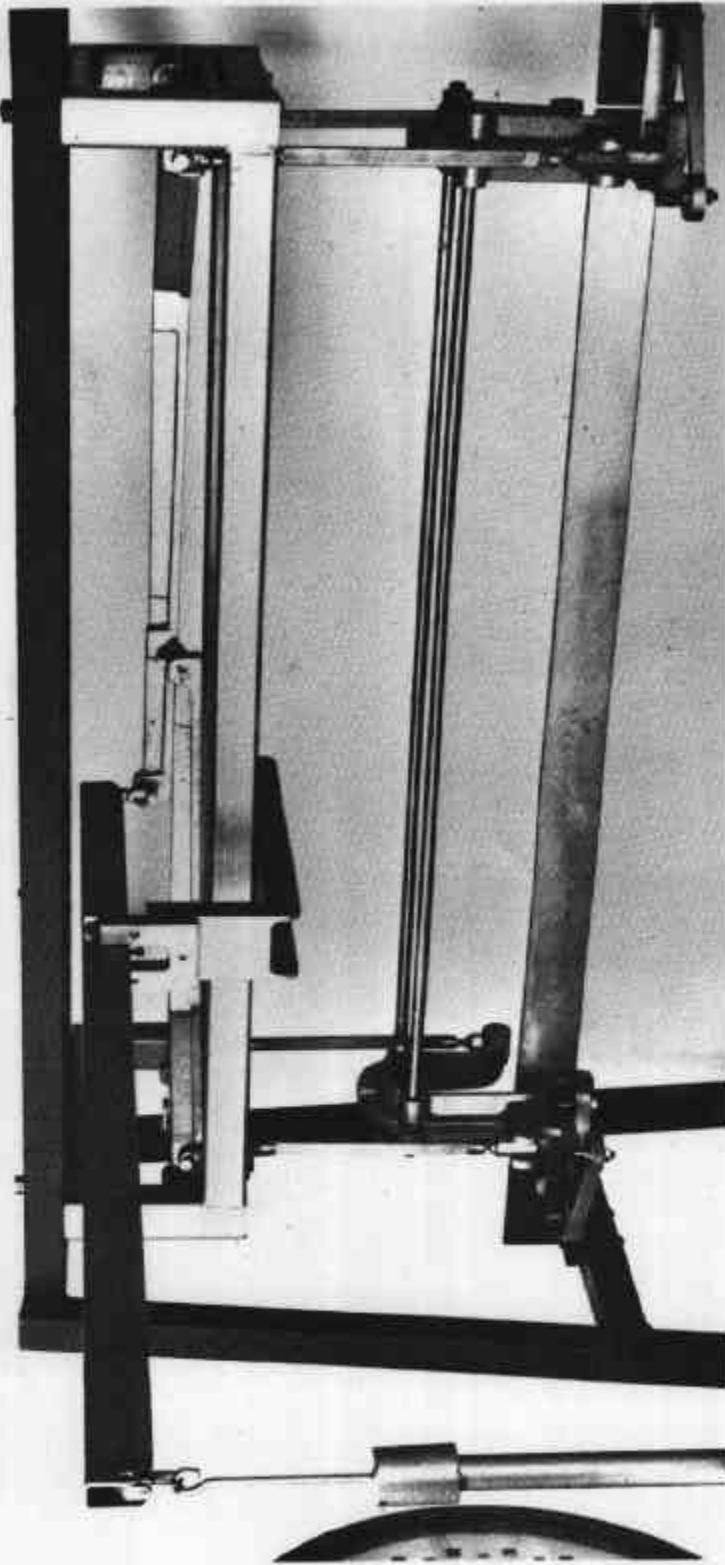
FIGURE 6/18/5 - 4



Mercury 211DA — Resistant Mechanism and
Main Headwork Lever

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FIGURE 6/18/5 - 5



Mercury 211DA — Overhead Track and Lever Mechanism

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