CERTIFICATE OF APPROVAL No 6/9C/1 CANCELLED

VARIATION No 2

This is to certify that the following modification of the patterns of the

ASE Model A67 Weighing Instrument

approved in Certificate No 6/9C/1 dated 26 February 1971, and subsequent Variations,

submitted by Globus-Bizerba Pty Ltd,
122-156 Edinburgh Road,
Marrickville, New South Wales, 2204,

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

Date of Approval: 18 September 1974.

The approved modification, described in Technical Schedule No 6/9C/1, Variation No 2, and in drawings and specifications lodged with the Commission, provides for 400 graduations on the weight-indicating dial and 400 graduations on the tare dial.

The approval is subject to review on or after 1 September 1979.

All instruments conforming to this approval shall be marked with the approval number "NSC No 6/9C/1".

Signed

Executive Officer

Interest

18/9/74

COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

Weights and Measures (National Standards) Act 1960-1966

Weights and Measures (Patterns of Instruments) Regulations

Certificate of Approval

CERTIFICATE NUMBER 6/9C/1

In respect of the pattern of

ASE Dial Head Platform Scales and Variants.

Submitted by: Agta Pty. Ltd.,
616 South Road,
Glandore,
South Australia. 5037.

Manufactured by: August Sauter KG,
Ebingen,
West Germany.

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.

Approval was granted for the pattern and variants 1 and 2 on 28th September, 1966.

Approval was granted for variants 3 and 4 on 18th February, 1971.

Approval was granted on condition that all instruments made in conformity with the pattern and variants:

1. are appropriately marked NSC No 6/9C/1; and

2. comply with the General Specifications for Weighing and Measuring Instruments to be Used for Trade in respect of that part of the instrument which was not previously approved by a State.

This Certificate comprises:

Pages 1 to 4 dated 26th February, 1971.
Figures 6/9C/1 - 1 to 8 dated 26th February, 1971.

Pursuant to regulation 12 of the abovementioned Regulations, variant 4 is applicable in all States.

Date of issue 26th February, 1971.

Signed

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

DESCRIPTION OF PATTERN

The pattern is of a self-indicating platform scale with an ASE dial and headwork (see Figure 1). The instrument has a total capacity of 120 kilogrammes — 100 kilogrammes on the dial and 20 kilogrammes on the taring device. The dial is divided into 20 major divisions, each representing 1 kilogramme; each major division is graduated in 50 gramme intervals; every second graduation is numbered.

The basework (see Figure 2) consists of two first-order main levers (see Figure 3) pivoted near the corners of the base-frame. The platform is supported on four load points on ball supports allowing limited free lateral motion. A third first-order lever is coupled to the nose-ends of the main levers through thrust-type self-aligning links (see Figure 4) and transfers the load to the headwork pullrod.

The ASE headwork consists of a column with an extended housing for a quick-taring device surmounted by a dial housing. Figure 5 is a schematic diagram of the headwork. Attached to the pullrod and mounted in the column are a spring shock absorber and a temperature-compensated oil dashpot. The quick-taring device consists of a shaped lever with a sliding poise driven on rollers along the lever (see Figure 6) by a steel tape drive; the fulcrum knife-edge of the lever is positioned, with respect to the steel tape drive, on fixed bearings so that movement of the lever does not affect the poise position. The tare adjustment has a graduated dial attached. The other end of the lever has a zero balancing weight attached which is adjusted through an opening in the end of the housing.

The resistant mechanism (see Figures 5 and 7) is a double pendulum mounted in the dial housing. The pendulum levers, which turn on knife-edge bearings, are extended to support a bridge constrained to move vertically by a link between the upper lever and the bridge. Fixed to the bridge are supports for a vertically moving flash chart (see Figure 8), and a rack which engages the pinion of the balanced indicator shaft. Each end of the indicator spindle is supported on a pair of overlapping metal arcs which turn about knife-edge bearings and are so coupled to one of the pendulum levers that they move to assist the pointer rotation.

The pointer makes five revolutions of the dial and at the same time the flash chart changes the major graduations, visible in the main chart apertures, to match the travel of the pointer.

The instrument is fitted with a number of transit locking devices. Two screws in the upper surface of the dial housing can be screwed into the pendulum levers; these screws have springs which keep them out of contact with the levers when not in use. There is also a nut sliding on the dashpot plunger rod which can be used to seal the dashpot. When not in use, the nut is held at the top of the rod by a spring clip.

DESCRIPTION OF VARIANTS

1. The pattern in other capacities up to 2400 lb or 1200 kg, provided there are not more than 400 graduations on the dial, and not more than 5 revolutions of the indicator.

2. Without the quick-taring device.

3. The headwork of the pattern and variants fitted to other lever systems approved by the Commission.

*4. The headwork of the pattern and variants fitted to other lever systems approved by a State.

GENERAL NOTES

Notice of approval of the pattern and variants 1 and 2 described in this Certificate was given in Memorandum of Approval No 18 dated 28th September, 1966.

No previous notice of approval has been given for variants 3 and 4.

* Approved pursuant to regulation 12.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/1

VARIATION No 1

Pattern: ASE Self-indicating Weighing Instrument

Submittor: Globus-Bizerba Pty Ltd,
122-156 Edinburgh Road,
Marrickville, New South Wales, 2204.

Date of Approval of Variants: 9 May 1974

The modifications described in this schedule apply to the pattern and variants described in the following pages and figures of Certificate No 6/9C/1 issued on 26 February 1971:

Pages 3 and 4 dated 26 February 1971
Figures 6/9C/1 - 1 to 8 dated 26 February 1971

Description:

This variation approves:

1. The ASE headwork with:

   (a) a basework of up to 17,5-kg capacity (see Figures 9 and 10); and

   (b) a basework of up to 6-kg capacity (see Figure 11).

   In each case the headwork will have a maximum of 300 graduations on the dial, the indicator may make up to 5 revolutions of the dial, and the tare bar, if fitted, may have up to 250 graduations. The instrument is known as the ASE Model A67.

2. A headwork locking device on the top of the dial housing (see Figure 12). A notice showing the locked and unlocked positions of the handle is located at the top of each dial.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/1

VARIATION No 2

Pattern: ASE Model A67 Weighing Instrument

Submittor: Globus-Bizerba Pty Ltd,
122-156 Edinburgh Road,
Marrickville, New South Wales, 2204.

Date of Approval of Variation: 18 September 1974

The modification described in this schedule applies to the patterns described in the following pages and figures of Certificate No 6/9C/1 dated 26 February 1971 and Technical Schedule No 6/9C/1 — Variation No 1 dated 22 May 1974:

Pages 3 and 4 dated 26 February 1971 (Certificate)
Page 1 dated 22 May 1974 (Technical Schedule)
Figures 6/9C/1 - 1 to 8 dated 26 February 1971
Figures 6/9C/1 - 9 to 12 dated 22 May 1974

All instruments conforming to this approval shall be marked "NSC No 6/9C/1".

Description:

The approved modification provides for 400 graduations on the weight-indicating dial and 400 graduations on the tare dial (see Figure 13).

NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE No 6/9C/1

CHANGE No 1

Tne approval of tne

Bizerba Weigning Instrument Model ASE

given in Certificate No 6/9C/1 dated 26 February 1971 and Certificate No 6/9C/1 - Variation Nos 1 and 2 dated 9 May 1974 and 18 September 1974 respectively,

and described in Certificate No 6/9C/1 dated 26 February 1971 and Tecnnical Scnedule No 6/9C/1 - Variation Nos 1 and 2 dated 22 May 1974 and 18 November 1974 respectively,

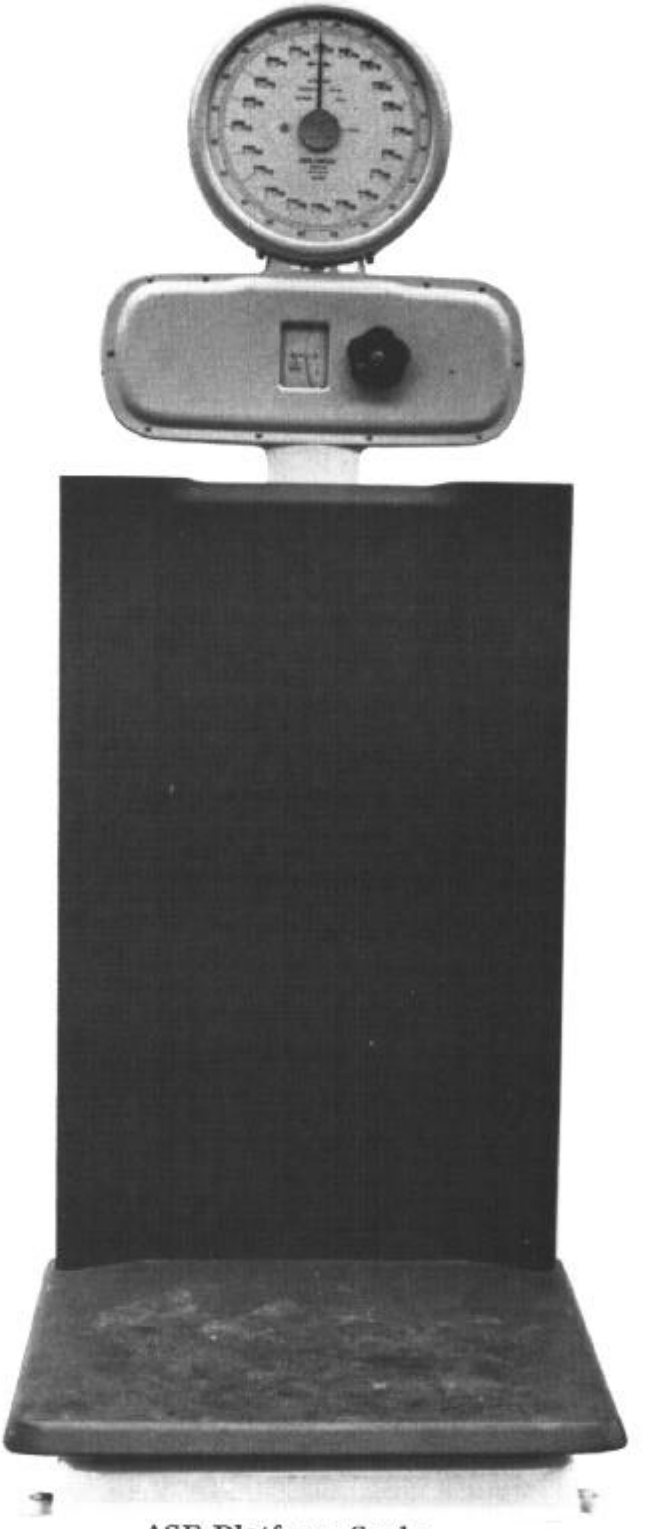
is cnanged by adding, as appropriate:

submitted by: Globus-Bizerba Pty Ltd,
150-152 Edinburgn Road,
Marrickville, New Soutn Wales, 2204,

manufactured by: Bizerba S.P.A.,
Milano,
Italy.

26/9/77

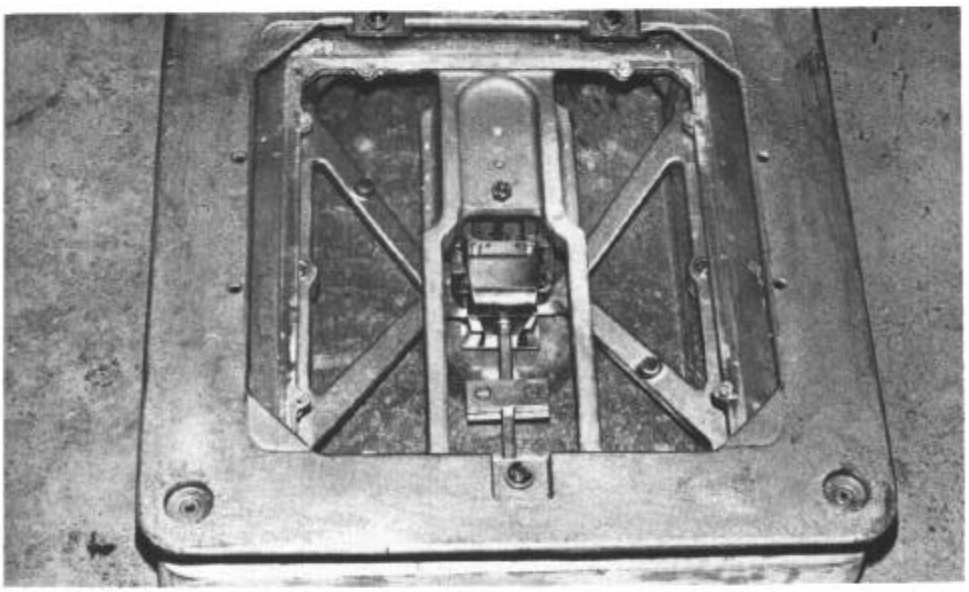
FIGURE 6/9C/1 - 1



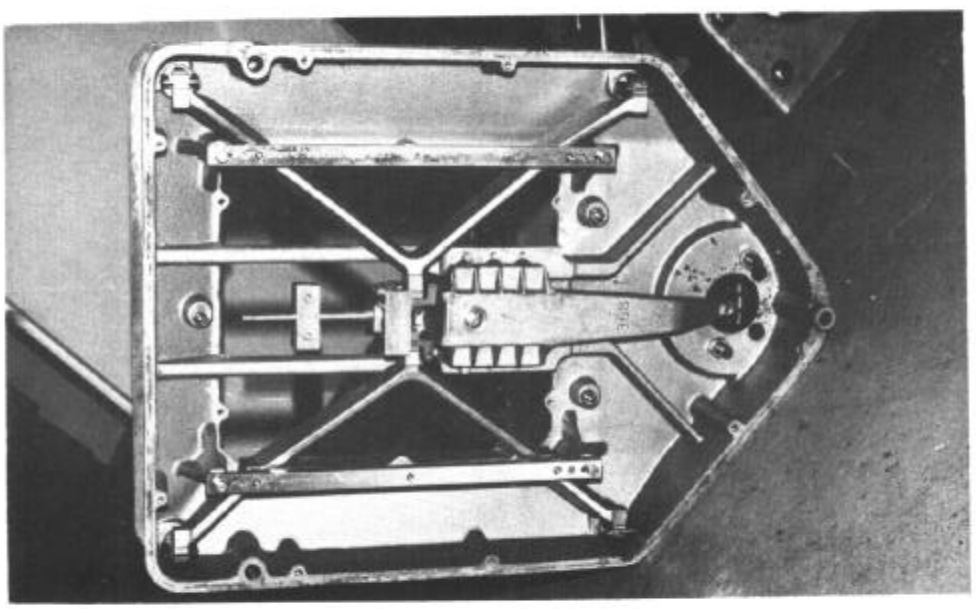
ASE Platform Scale

26/2/71

FIGURE 6/9C/1 - 2



View from Above

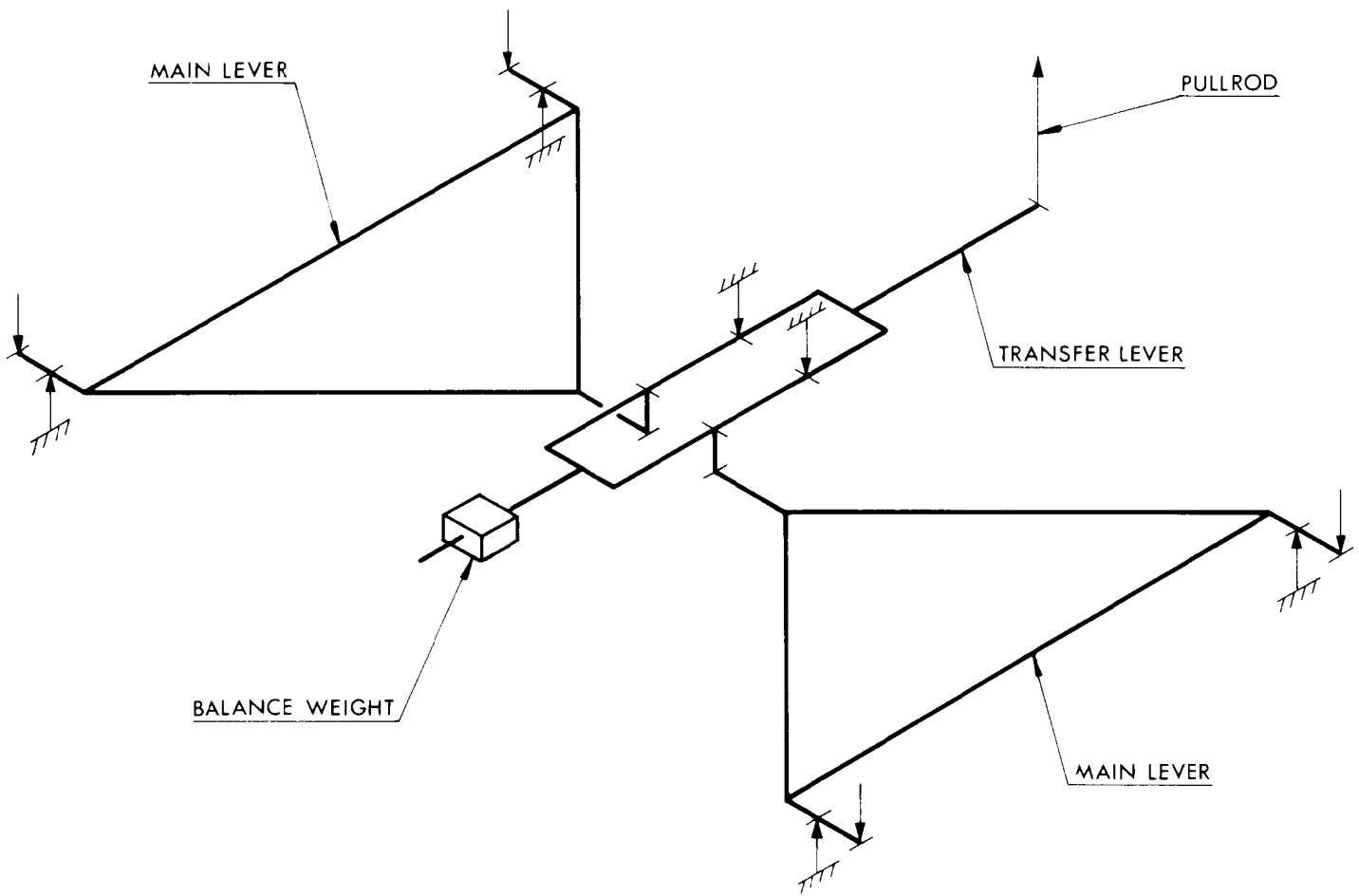


View from Below

Basework Lever System

26/2/71

FIGURE 6/9C/1 - 3



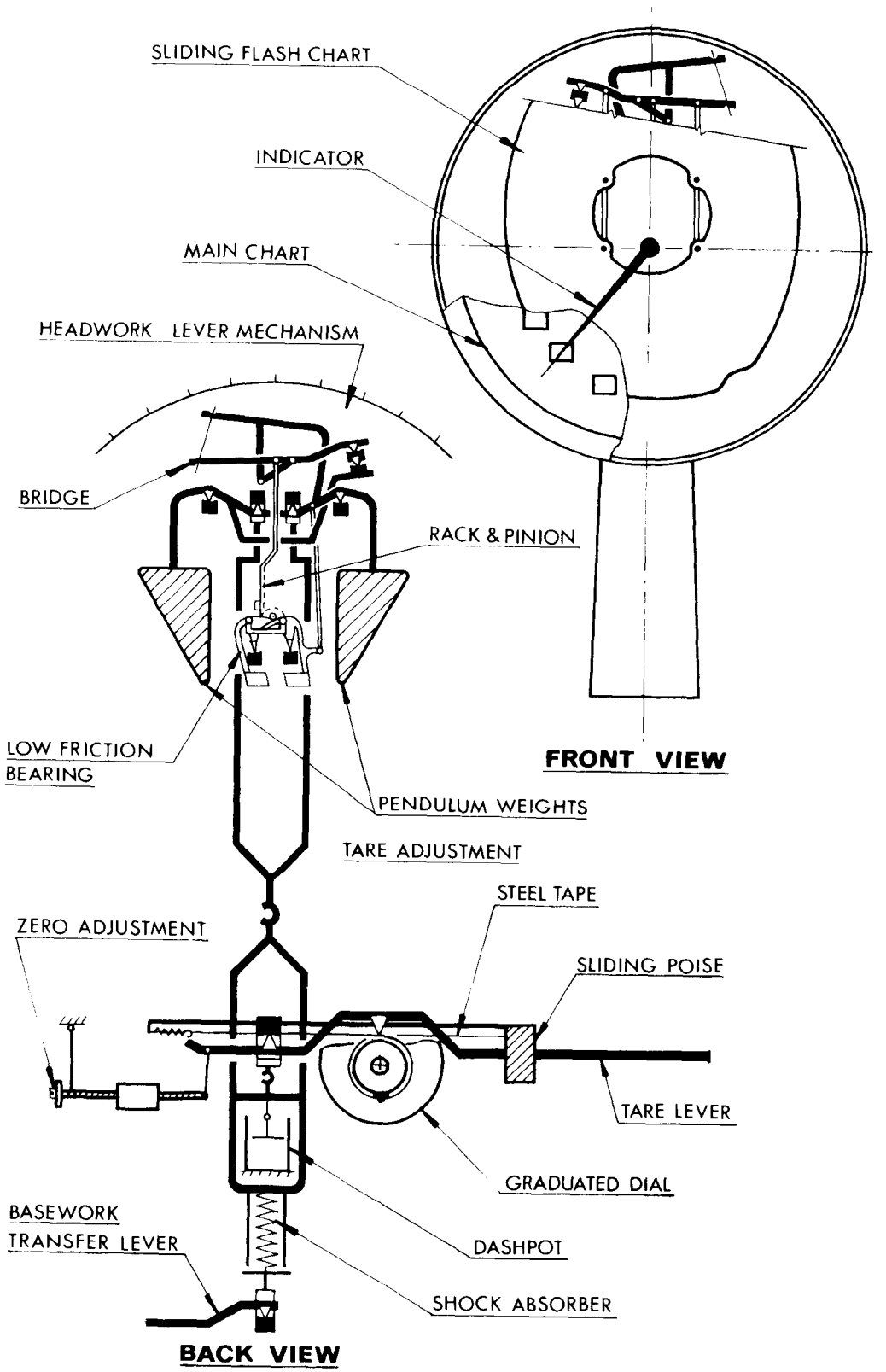
Lever System

FIGURE 6/9C/1 - 4

Self-aligning Link — from Below

26/2/71

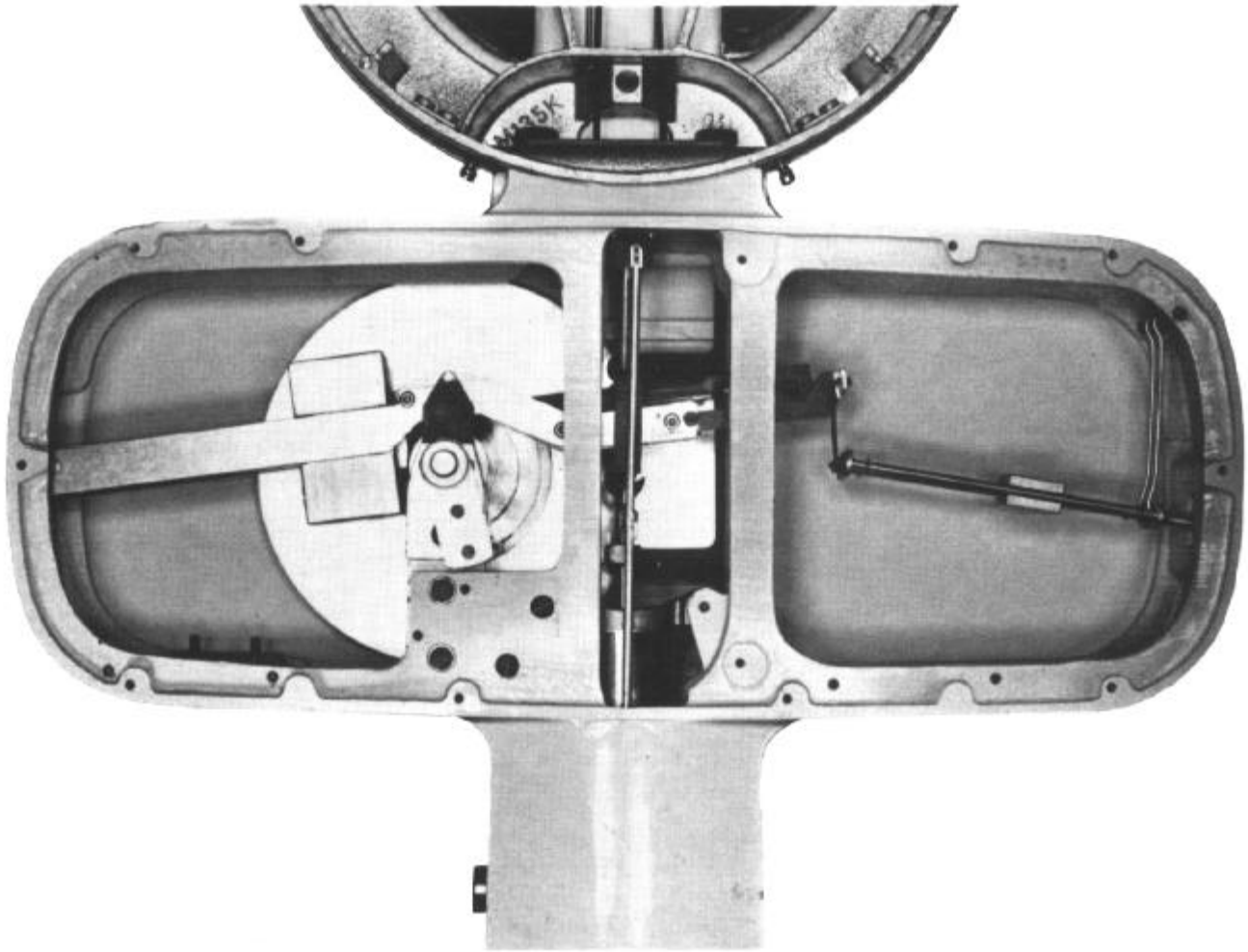
FIGURE 6/9C/1 - 5



Headwork Lever System

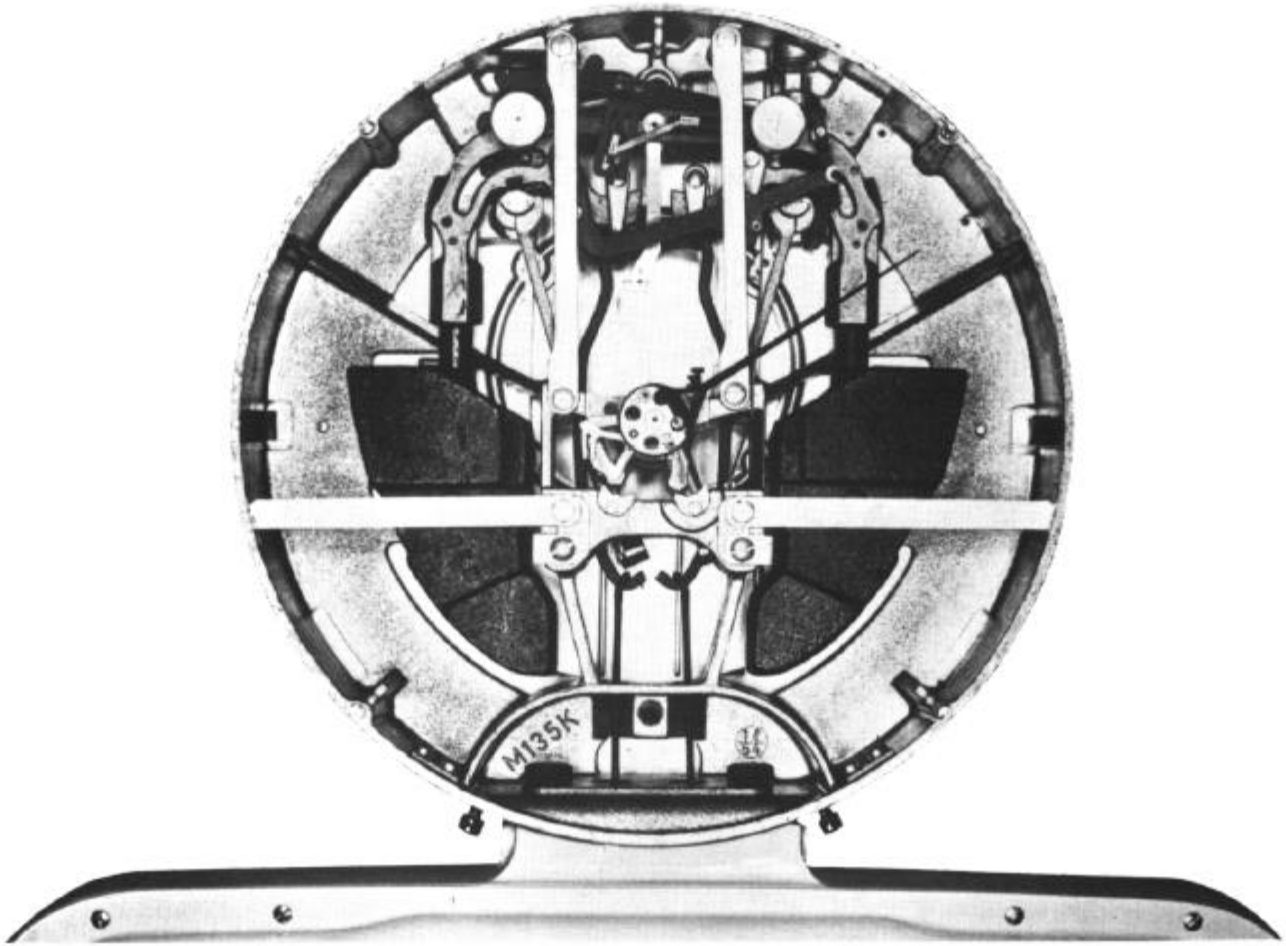
26/2/71

FIGURE 6/9C/1 - 6



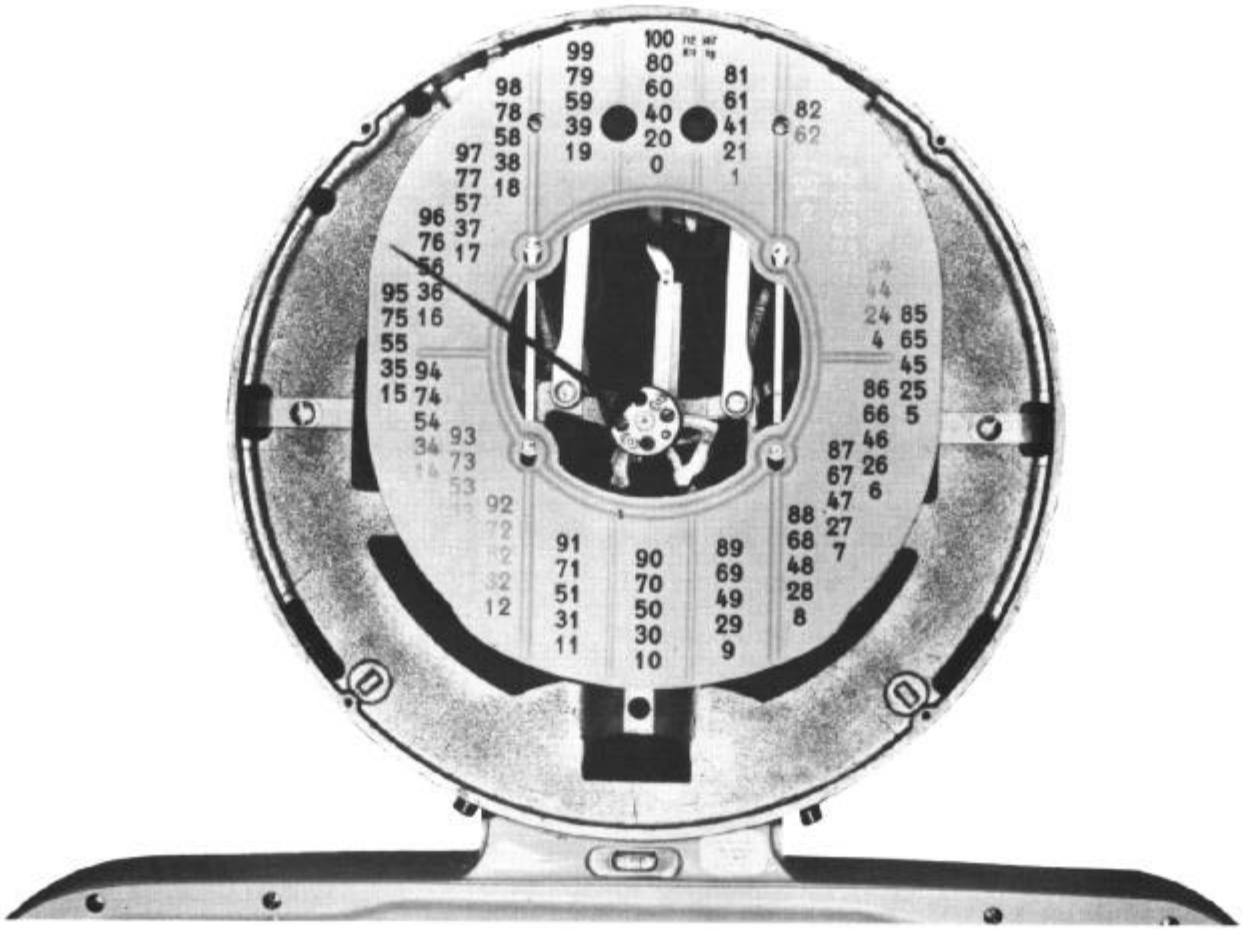
Quick-tare and Zero-adjustment Lever

FIGURE 6/9C/1 - 7



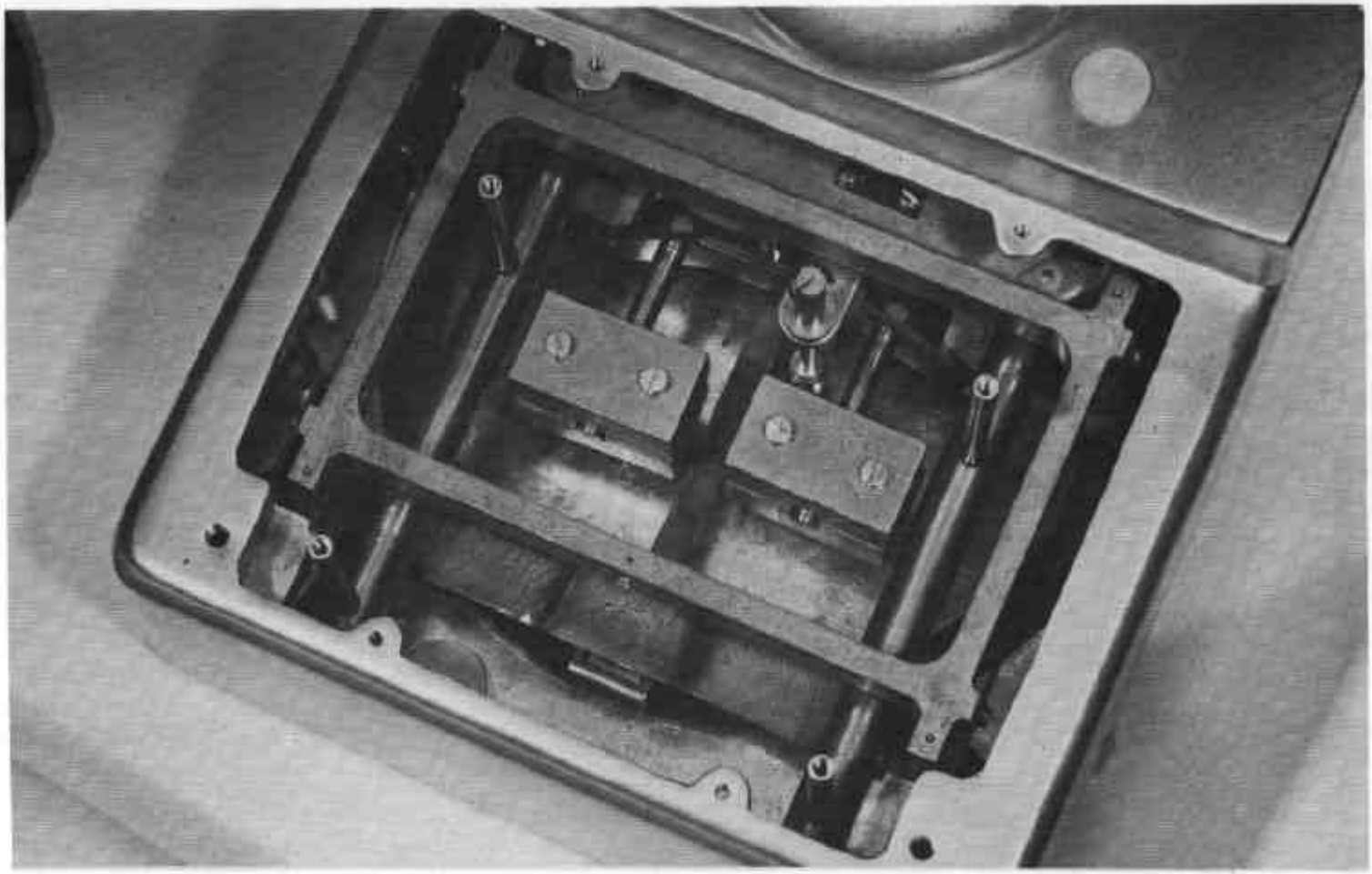
Headwork — Lever Mechanism

FIGURE 6/9C/1 - 8



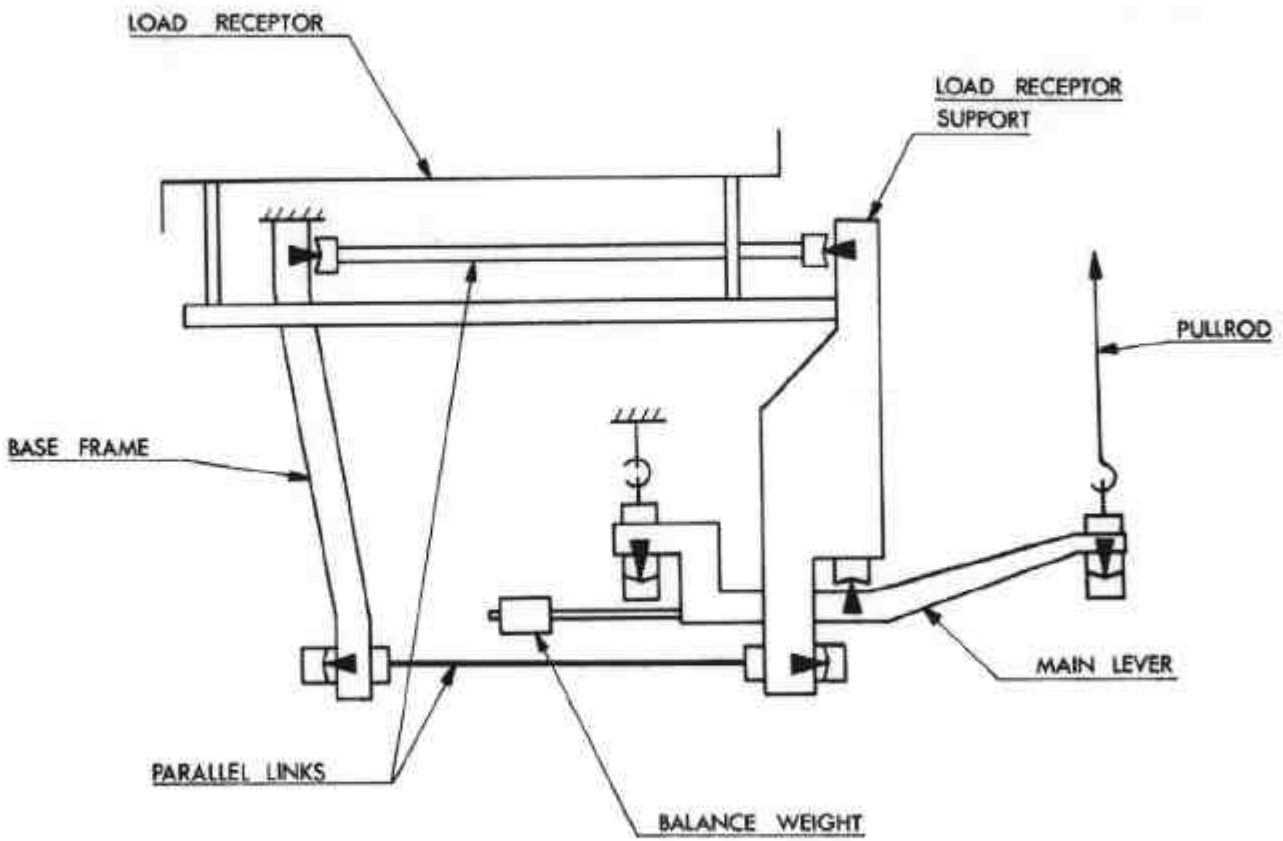
Headwork — Vertically Moving Flash Chart

FIGURE 6/9C/1 - 9



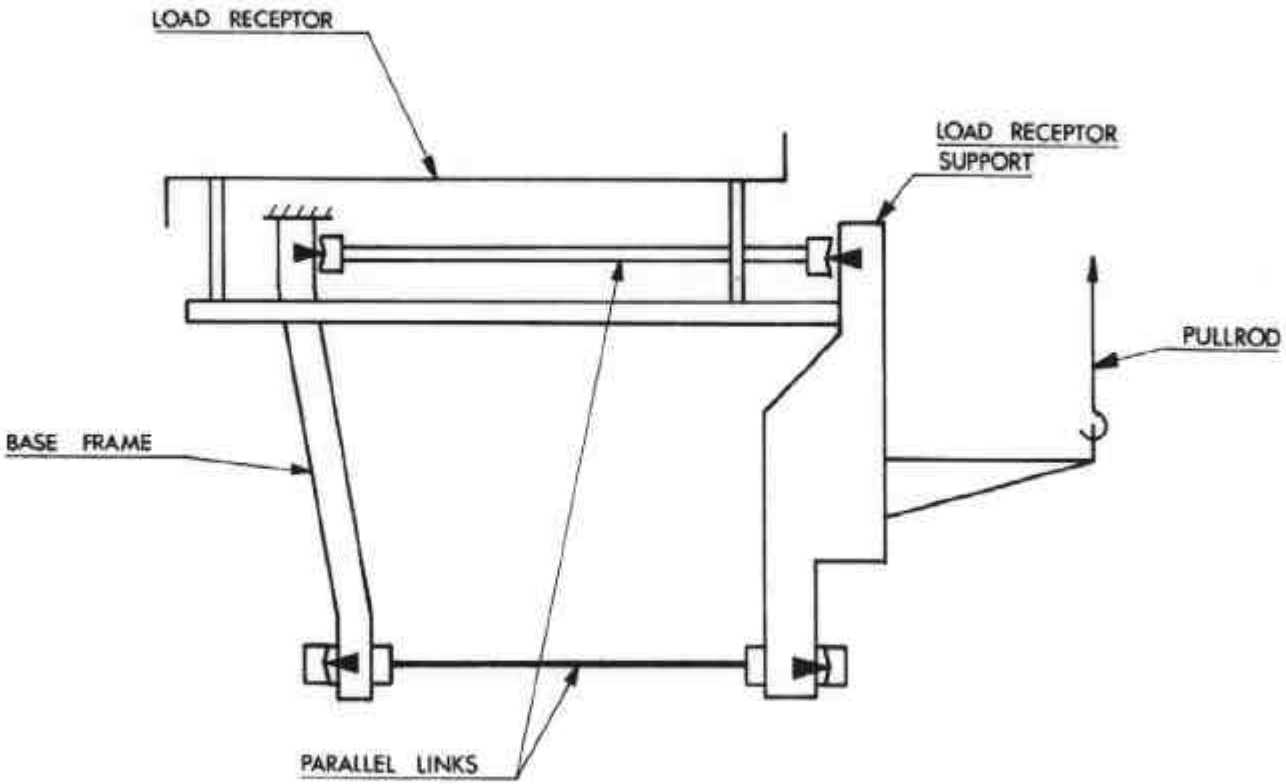
Basework Lever System up to 17,5-kg Capacity

FIGURE 6/9C/1 - 10



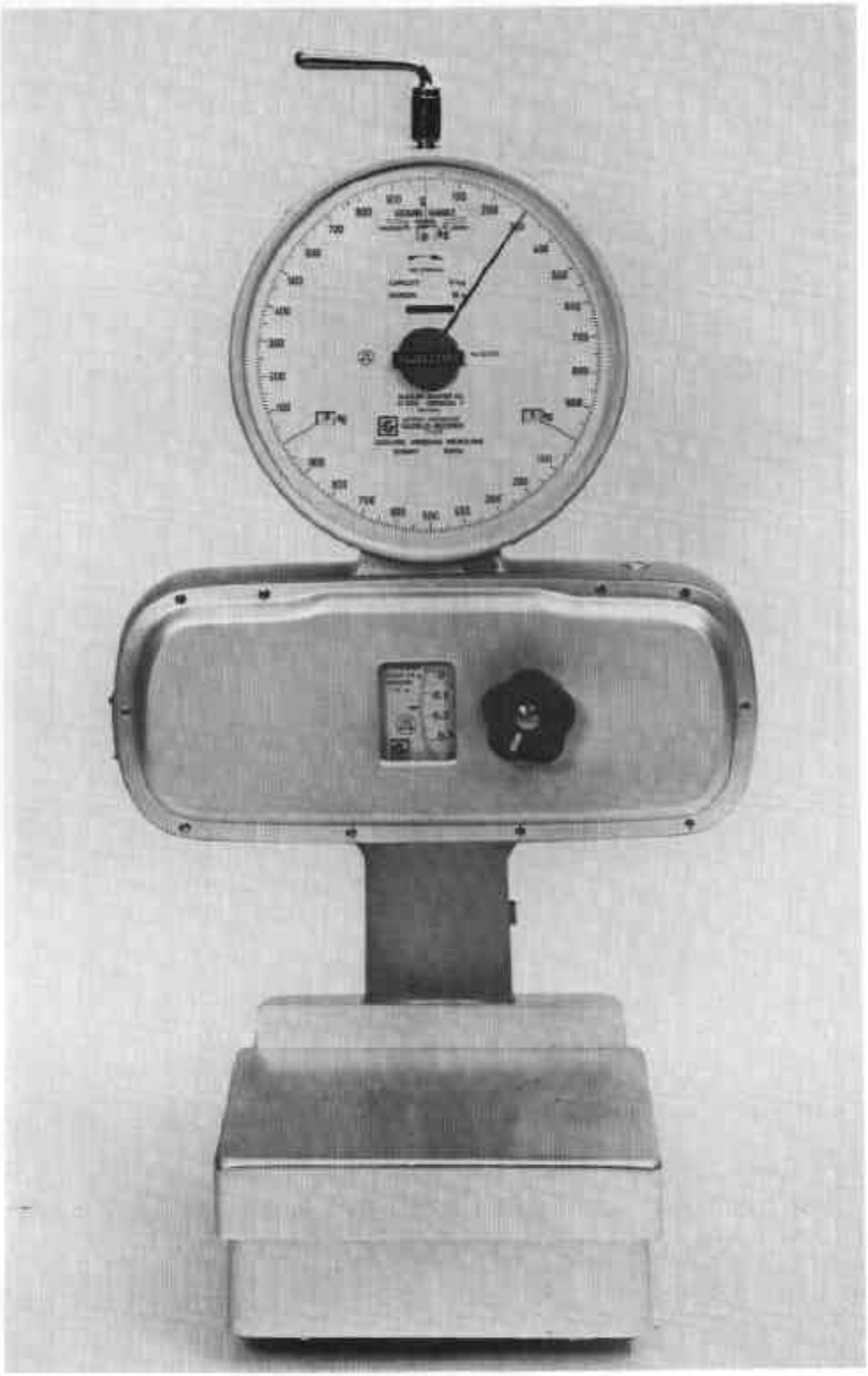
Schematic Diagram — Basework Lever System up to 17,5-kg Capacity

FIGURE 6/9C/1 - 11



Schematic Diagram — Basework Lever System up to 6-kg Capacity

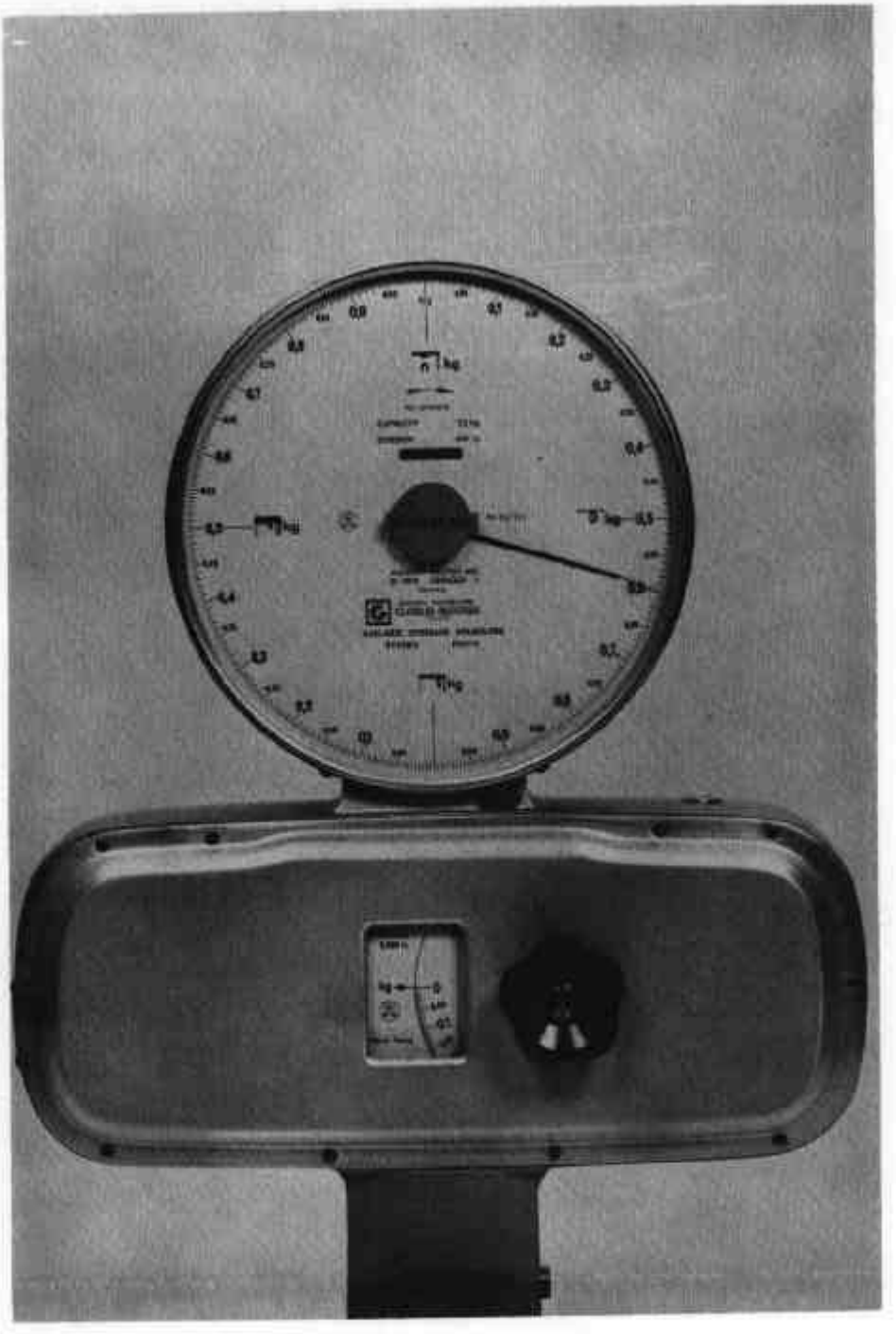
FIGURE 6/9C/1 - 12



ASE Model A67 Weighing Instrument
showing Headwork Locking Handle

22/5/74

FIGURE 6/9C/1 - 13



ASE Model A67 Weighing Instrument
Showing an Acceptable Method of Marking the Dial

(Note: The dial illustrated in Figure 12 may be unacceptable to Weights and Measures Authorities.)

18/11/74