



CANCELLED

COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

Weights and Measures
(National Standards)
Act 1960-1964

Weights and Measures
(Patterns of Instruments)
Regulations

Certificate of Approval

CERTIFICATE NUMBER 6/4A/2

In respect of the pattern of

Berkel Model LH14 Partly Self-indicating Counter Machine and
Variants 1 to 9.

Submitted by: Toledo-Berkel Pty. Ltd. ,
525 Graham Street,
Port Melbourne,
Victoria. 3207.

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:

1. The pattern and variants 3 and 9 on 19th May, 1967.
2. Variants 1, 2, 4, 5, 6, 7 and 8 on 26th August, 1968.

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

1. are appropriately marked NSC No 6/4A/2; and
2. comply with the General Specifications for Weighing and Measuring Instruments to be Used for Trade.

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Cont'd over

This Certificate comprises:

Pages 1 to 4 dated 5th August, 1969.

Figures 6/4A/2 - 1 to 5 dated 5th August, 1969.

Signed 

Date of issue 5th August, 1969.

DESCRIPTION

The pattern (see Figure 1) is a partly self-indicating counter machine of 14 lb capacity, the mechanism of which is shown diagrammatically in Figure 2.

The weighing mechanism (see Figure 3) is of the Roberval type fitted with an oil dashpot, in which a covered balance box is fitted to each of the two legs and a helical tension spring is coupled between an arm projecting inwardly from the leg under the weight receptor and the base of the instrument.

The indicating mechanism (see Figure 4) consists of a balance-weighted shaft fitted with a drum and a plain indicator. A flexible steel ribbon is coupled at one end through a stirrup to the arm projecting from the weight-receptor leg, passes over and is secured to the drum and at the other end is attached to the frame of the instrument through a helical tension spring. This spring, together with the spring coupled to the arm, comprise the load resistant of the instrument. A double-sided centre-zero chart (see Figure 5) marked "heavy" in black and "light" in red, of 2 oz by $\frac{1}{4}$ oz graduations on the heavy side and marked "WS 215" is fitted.

The indicating mechanism and chart housing is rotatable through 90° from a position parallel to the main beam.

The instrument is supported on four adjustable feet.

SCHEDULE OF VARIANTS

1. Instruments similar to the pattern, fitted with weight charts of 1 oz by 2 dr, 0.06 lb by 0.01 lb or 0.12 lb by 0.02 lb graduations.
2. Instruments similar to the pattern, of 7 kg capacity, fitted with weight charts of 20 g by 2 g, 25 g by 5 g or 50 g by 5 g graduations.

3. An instrument similar to the pattern but with base and headworks enclosures of smaller dimensions and known as Model LH4 of 4 lb capacity.
4. Instruments similar to variant 3, fitted with weight charts of $\frac{1}{2}$ oz by 1 dr, $\frac{1}{2}$ oz by 2 dr, 1 oz by 2 dr, 1 oz by $\frac{1}{4}$ oz, 0.03 lb by 0.005 lb or 0.06 lb by 0.01 lb graduations.
5. Instruments similar to variant 3, of 2 kg capacity, fitted with weight charts of 10 g by 1 g, 10 g by 2 g, 20 g by 2 g or 20 g by 5 g graduations.
6. The pattern and variants 1, 2, 3, 4 and 5 being fitted with weight charts as described, graduated on both sides of zero, when the instruments are marked "not for retail counter use".
7. The pattern and variants 1, 2, 3, 4, 5 and 6 being fitted with weight charts in which the words "over" in black and "under" in red are substituted for the words "heavy" and "light" respectively.
8. The pattern or variant 3 being fitted with a chart having a zero graduation line only.

GENERAL NOTES

Notice of approval of the pattern and variants described in this Certificate was given in the following Memoranda of Approval:

No 64 dated 22nd May, 1967.

No 106A dated 9th September, 1968.

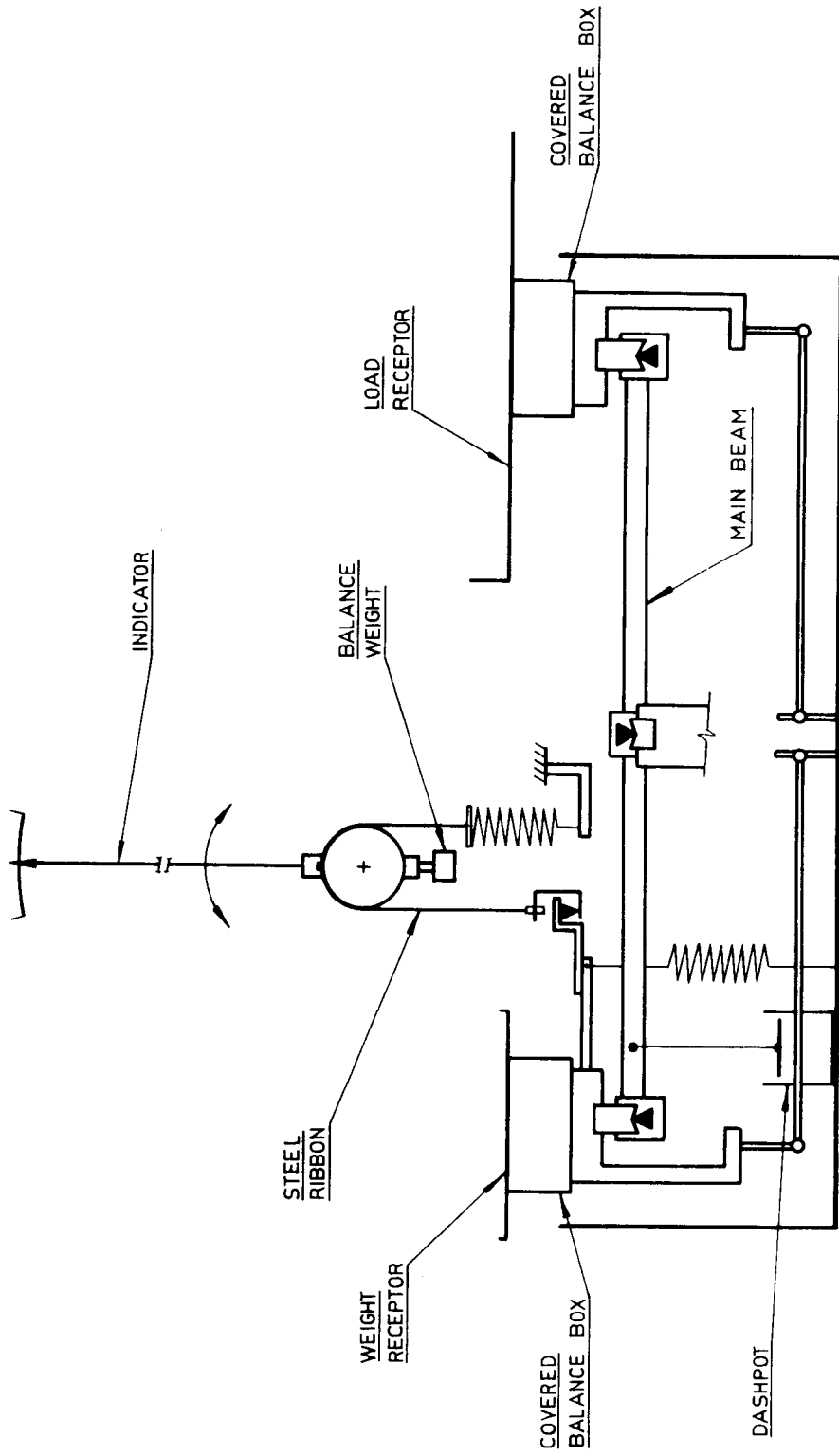
FIGURE 6/4A/2 - 1



Berkel Model LH14

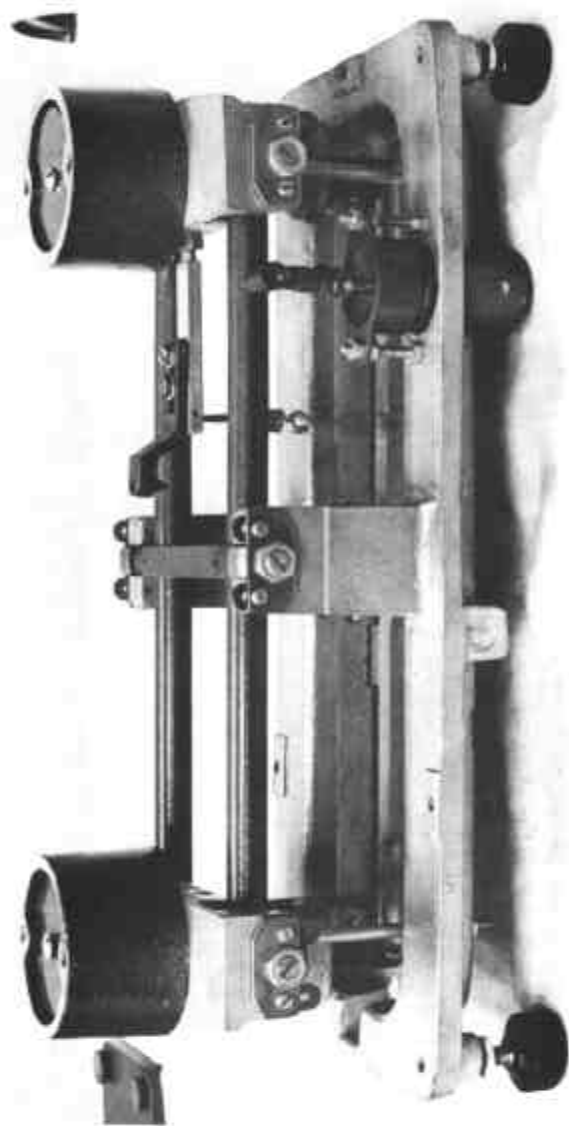
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FIGURE 6/4A/2 - 2



Lever and Indicating Mechanism

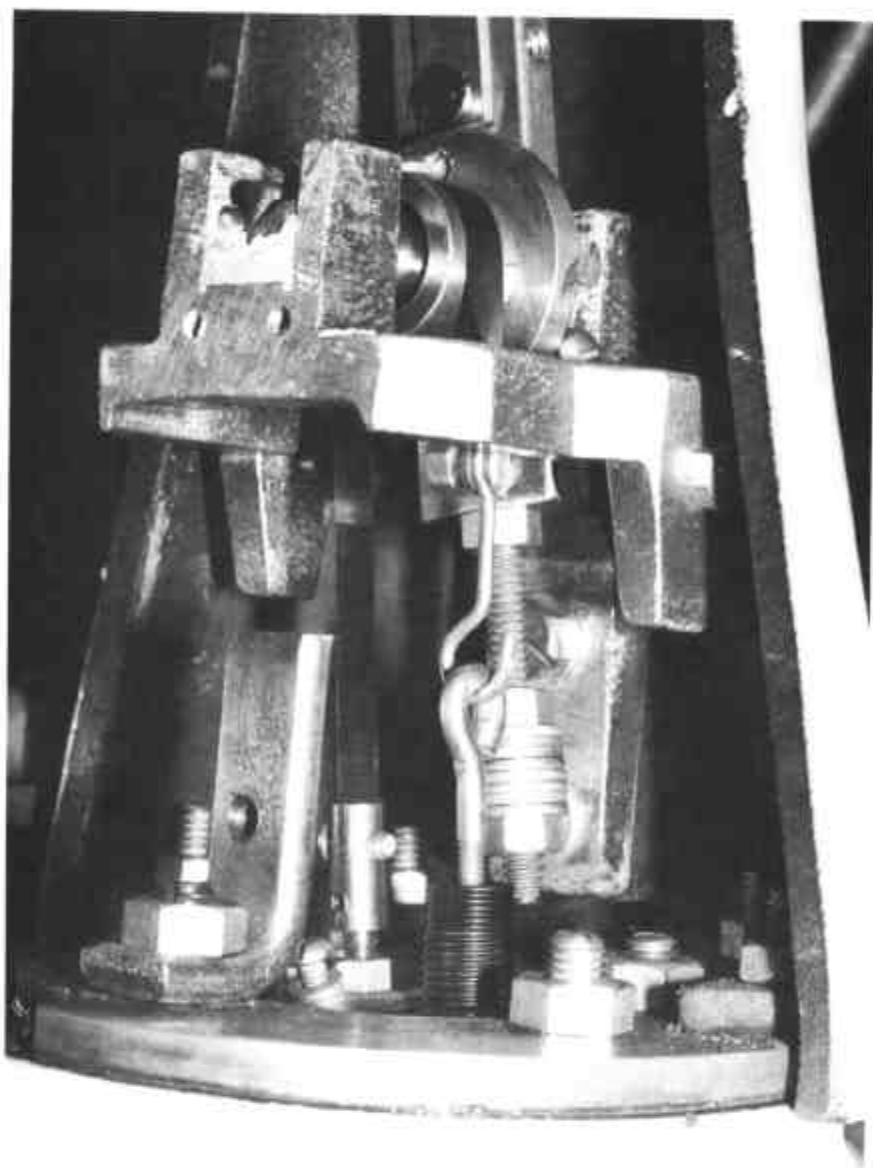
FIGURE 6/4A/2 -- 3



Weighing Mechanism

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FIGURE 6/4A/2 - 4



Indicating Mechanism

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FIGURE 6/4A/2 - 5



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Chart WS 215