CERTIFICATE OF APPROVAL No 6/4C/4

VARIATION No 1

This is to certify that the following modifications of the pattern and variants of the

Avery 1108 CJC Weighing Instrument CANCELLED

approved in Certificate No 6/4C/4 dated 12 January 1971 0

submitted by Avery Australia Ltd, 3-5 Birmingham Avenue, Villawood, New South Wales, 2163,

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

Approval was granted on 30 May 1974.

The approved modifications are:

(a) fitting a weight chart of capacity 6 kg by 10-g graduations;

(b) fitting a price chart for price rates 1 c/kg to 135 c/kg; and

(c) converting all models to indicate in metric units in accordance with Appendix 8 of the General Specifications for Measuring Instruments to be Used for Trade.

This variation is described in Technical Schedule No 6/4C/4, Variation No 1, and in drawings and specifications lodged with the Commission.

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

All instruments conforming to this approval shall be marked with the approval number "NSC No 6/4C/4".

Signed

Executive Officer

Indexed

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CANCELLED

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 6/4C/4

In respect of the pattern of

Avery 1108 CJC Self-indicating Counter Machine and Variants.

Submitted and manufactured by: W. & T. Avery (Australia) Pty. Ltd., 3-5 Birmingham Avenue, Villawood, New South Wales. 2163.

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 on 5th January, 1971.

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

1. are appropriately marked NSC No 6/4C/4; 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 12th January, 1971.
Figures 6/4C/4 - 1 to 9 dated 12th January, 1971.

Date of issue 12th January, 1971.

Signed

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

DESCRIPTION OF PATTERN

The pattern (see Figure 1) is of a self-indicating counter machine with a total capacity of 14 lb in two ranges, 0 to 7 and 7 to 14 lb by $\frac{1}{4}$ oz graduations.

The basework (see Figure 2) is assembled in a framework mounted on four levelling screws and has a second-order main lever (see Figure 3) pivoted in cageless ball races. The load receptor is supported on a bracket which is pivoted in ball races at the main lever load points and maintained in a horizontal position by a stiffened spring steel flexure stay (see Figure 4) anchored to the base frame between the main lever fulcrum supports. The motion of the lever mechanism is damped by a temperature-compensated oil dashpot mounted on the base frame and attached to the load-receptor support bracket. A 7 lb weight hangs between brackets attached to the load-receptor support bracket and a throw-over lever system lifts the weight clear to change the range of the scale from 0 to 7 lb to 7 to 14 lb.

The nose-end of the main lever is attached to the pullrod by means of a steel flexure ribbon attached between clamping plates. Zero balance is adjusted by varying the tension in a spring (see Figure 5) connected to the main lever nose-end.

The pullrod is connected at its upper end to an adjustable hook in a beam, in the headwork, which is supported by two temperature-stable springs (see Figures 3 and 6). The connections between the springs and the beam are steel flexure ribbons clamped to the ends of the beam. A short spring-loaded lever pivoted near one end of the beam carries the pivoted rack and acts as a shock-absorbing device. The rack meshes with a pinion on the indicator shaft, which rotates in ball races, constant mesh between the rack and pinion being maintained by an off-centre weight on the rack. The indicator shaft carries an inertia disc and the pointer.

Changing the range of the instrument from 0 to 7 lb to 7 to 14 lb automatically displays the correct weight values of the major chart graduations on a flash chart driven by a bowden cable from the changeover lever.

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A notice on the dial of the scale reads "not for retail counter use".

DESCRIPTION OF VARIANTS

1. Having other capacities as listed:

Chart Ranges	Total Capacity	Graduations
0 - 14 lb) 7 - 21 lb)	21 lb	$\frac{1}{2}$ oz
0 - 7 kg) 3 - 10 kg)	10 kg	20 g

2. Having indicators on both sides of the dial housing, in which case no notice regarding retail counter use will be required.

3. Having a pattern of 14 lb capacity by $\frac{1}{2}$ oz graduations (see Figure 7) fitted with a price-computing chart and unit-price frame (see Figures 8 and 9); the "add" prices on the unit-price frame are obscured when weighing in the 0 to 7 lb range.

   The dial on the purchaser's side of the instrument is marked with the following notice:

   "The price chart on this instrument is approved up to 7 lb only for the following price rates: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 25, 27, 29, 30, 31, 33, 35, 37, 39, 40, 41, 43, 45, 47 cents per pound".

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/4

VARIATION No 1

Pattern: Avery 1108 CJC Weighing Instrument

Submittor: Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

Date of Approval of Variants: 30 May 1974

The modifications described in this schedule apply to the pattern and variants described in the following pages and figures of Certificate No 6/4C/4 dated 12 January 1971:

Pages 3 and 4 dated 12 January 1971
Figures 6/4C/4 - 1 to 9 dated 12 January 1971

All instruments conforming to this approval shall be marked "NSC No 6/4C/4".

Description:

The approved modifications are:

1. Fitting a weight chart of capacity 6 kg in two ranges 0 to 3 and 3 to 6 kg by 10-g graduations (see Figure 10).

2. Fitting the above weight chart and a price-computing chart and price frame for unit prices from 1 c/kg to 135 c/kg (see Figures 11 and 12). The notice restricting the use of the price-computing chart is deleted.

3. Converting all models to indicate in metric units in accordance with Appendix 8 of the General Specifications for Measuring Instruments to be Used for Trade.

FIGURE 6/4C/4 - 1

Model 1108 CJC

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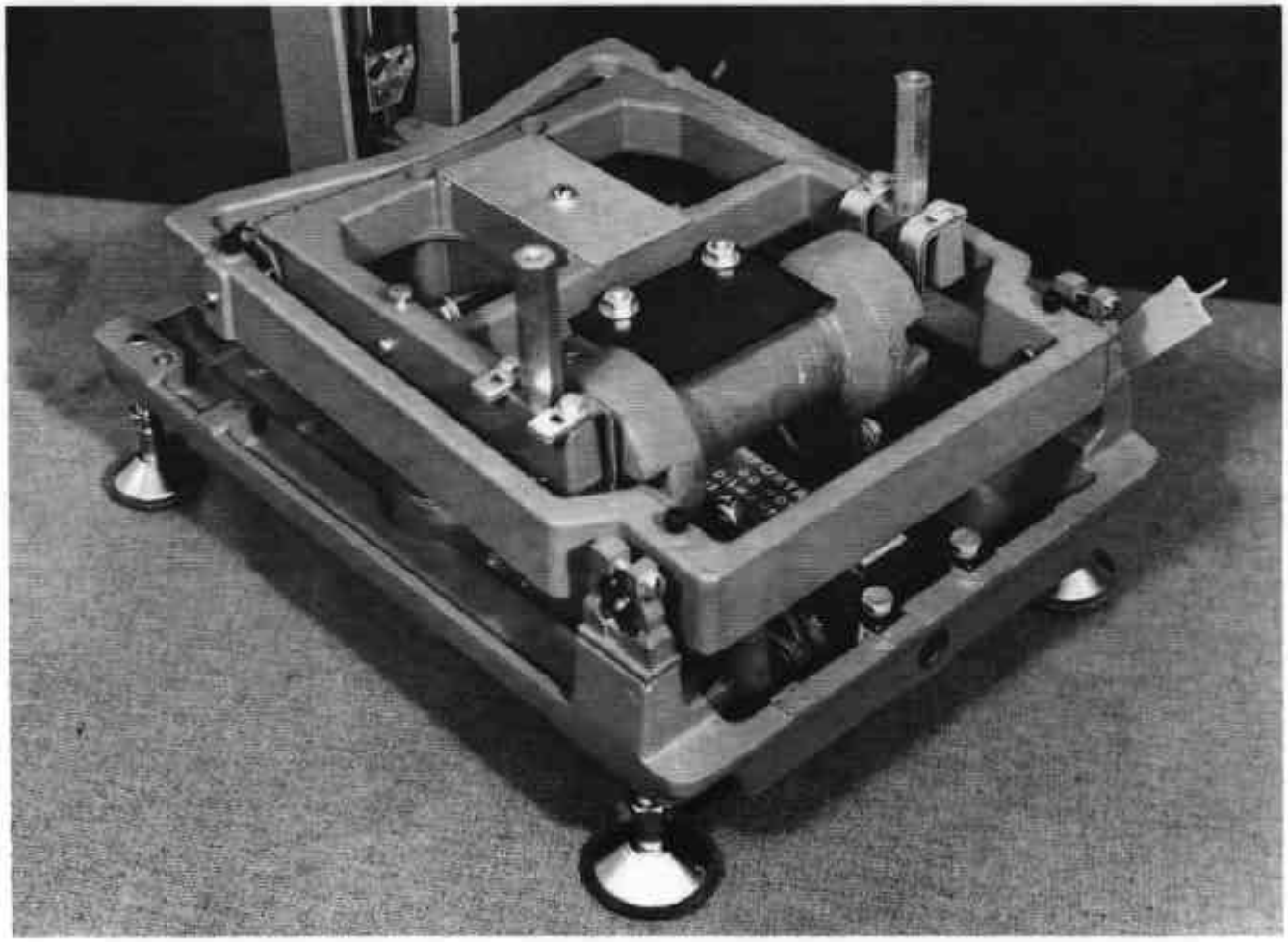
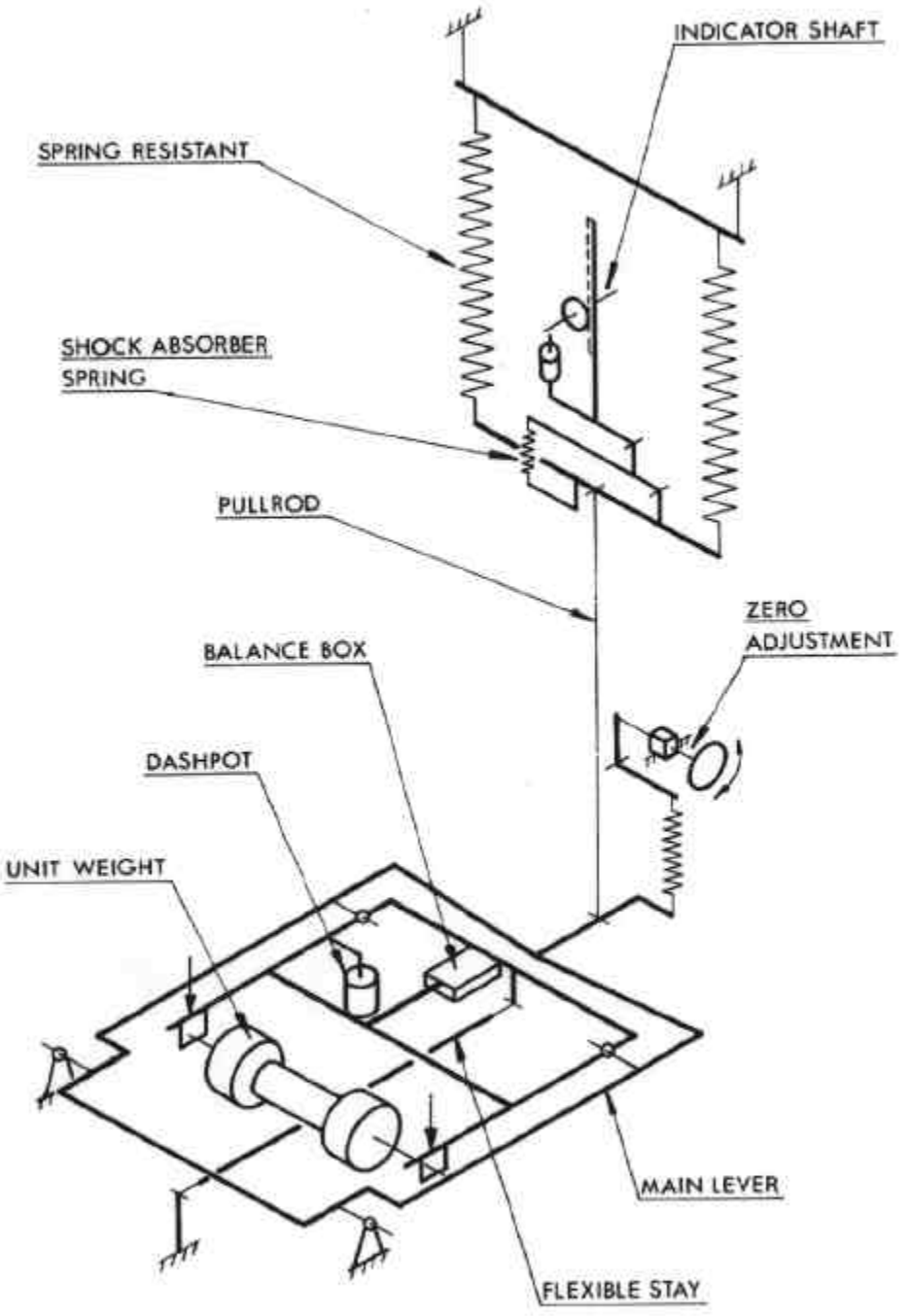
FIGURE 6/4C/4 - 2



Basework

FIGURE 6/4C/4 - 3



Lever Diagram

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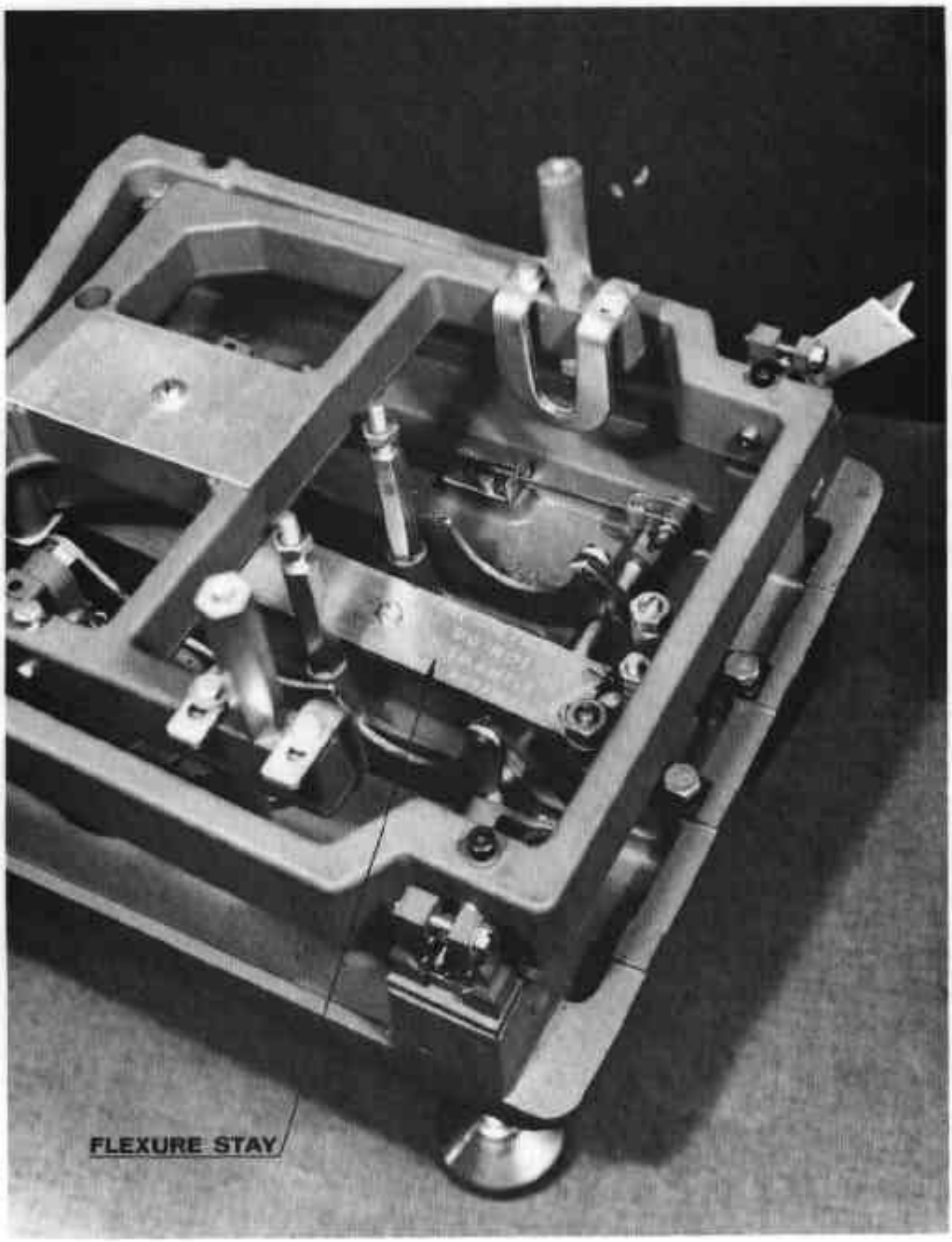
FIGURE 6/4C/4 - 4



Flexure Stay

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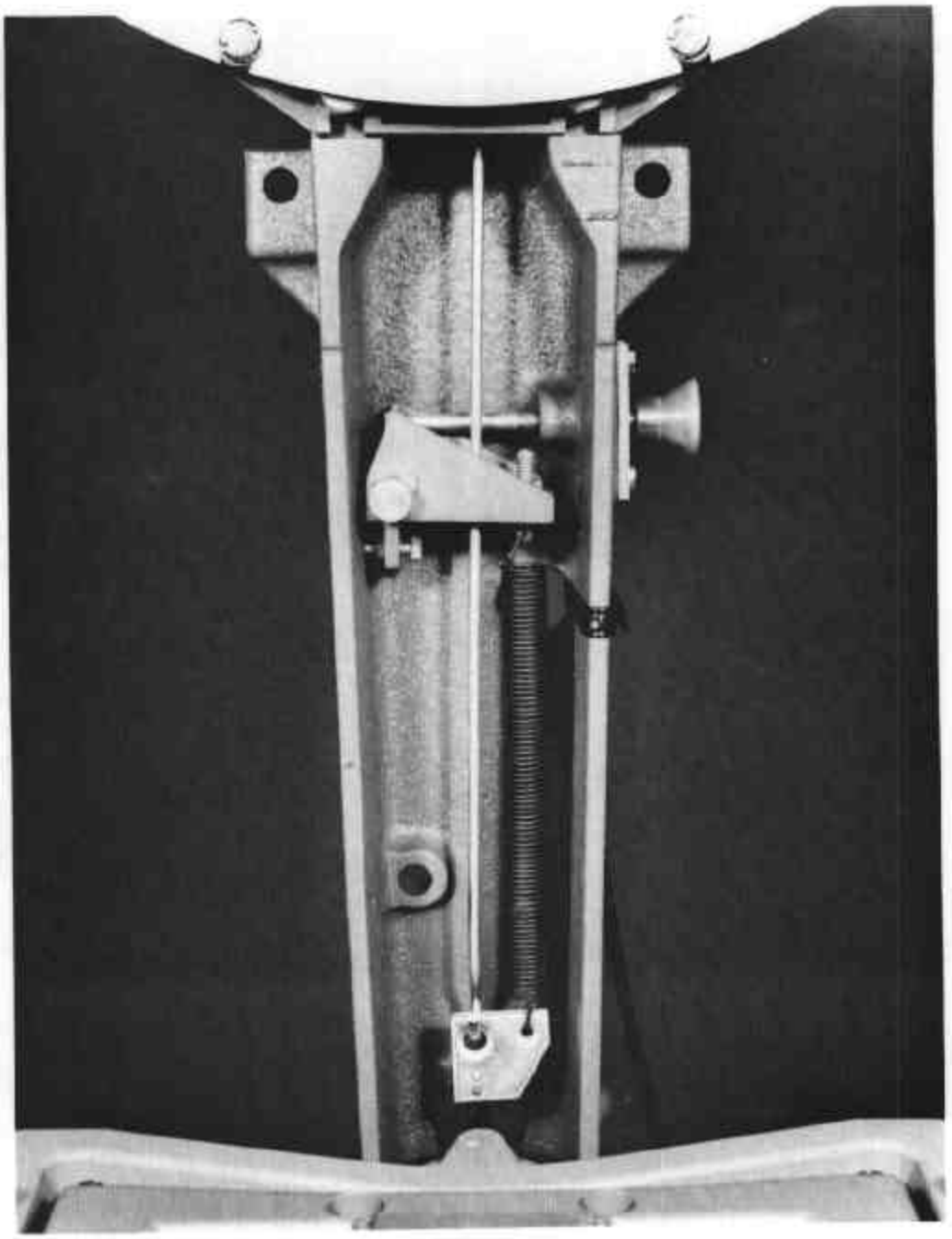
FIGURE 6/4C/4 - 5



Zero Adjustment

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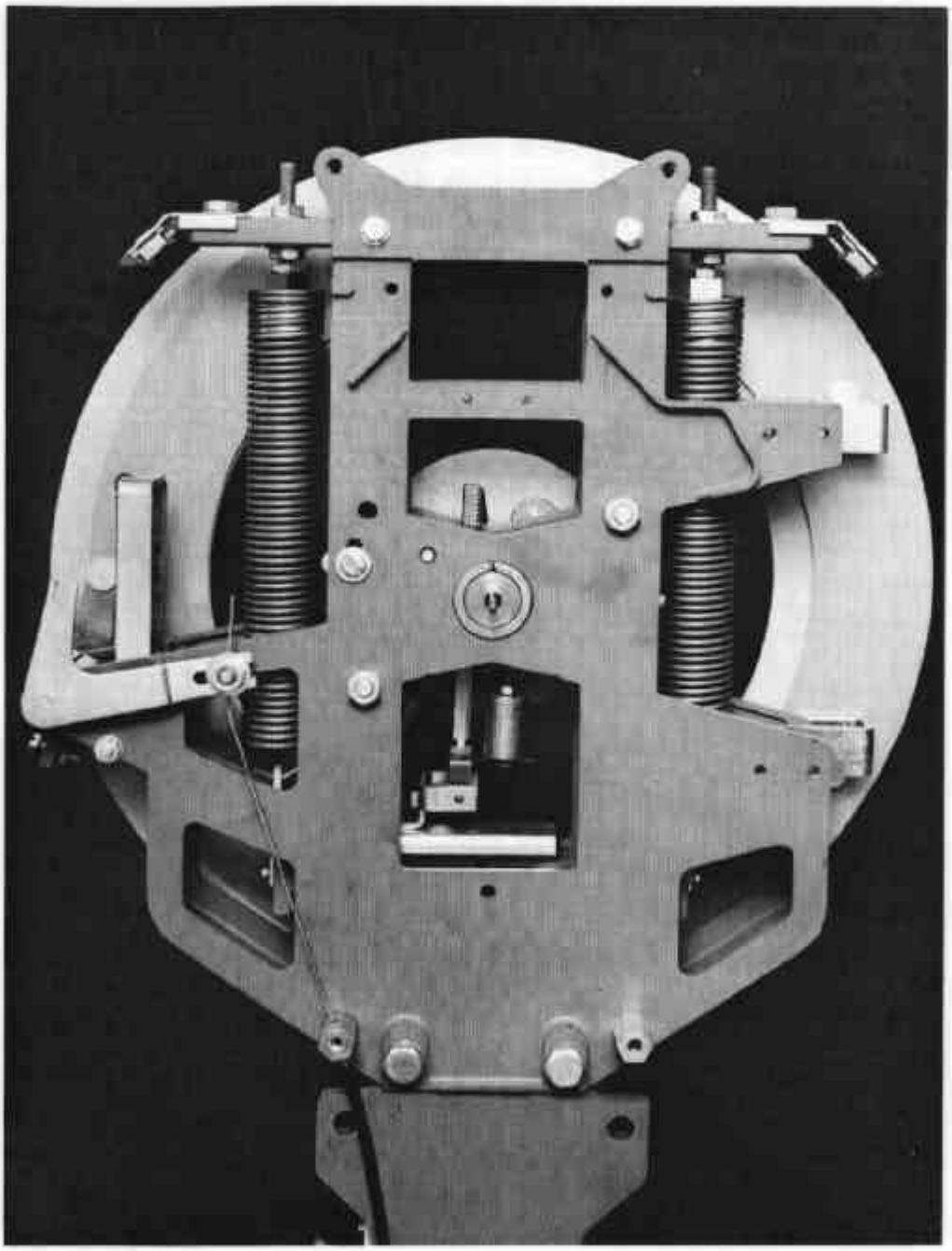
FIGURE 6/4C/4 - 6



Headwork - Resistant Mechanism

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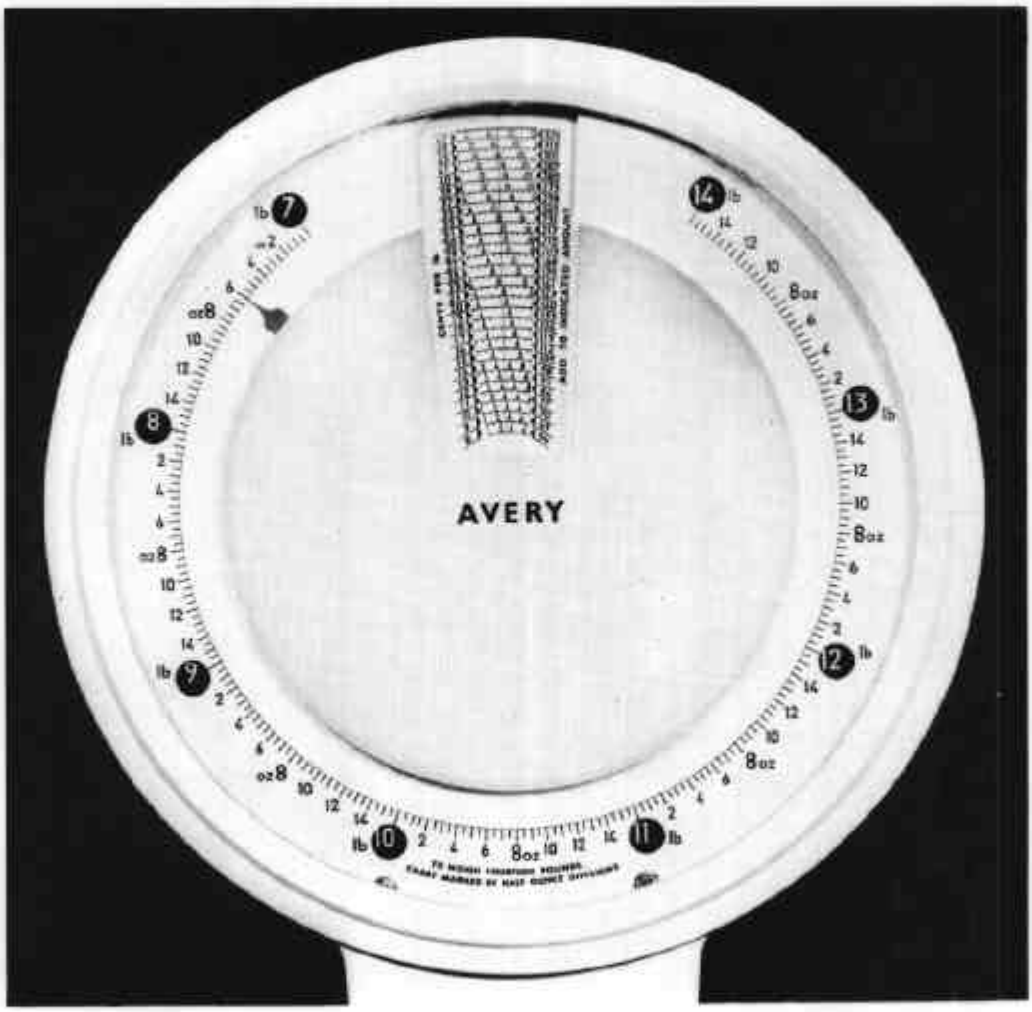
FIGURE 6/4C/4 - 7



Avery 1108, Fitted with Price Chart

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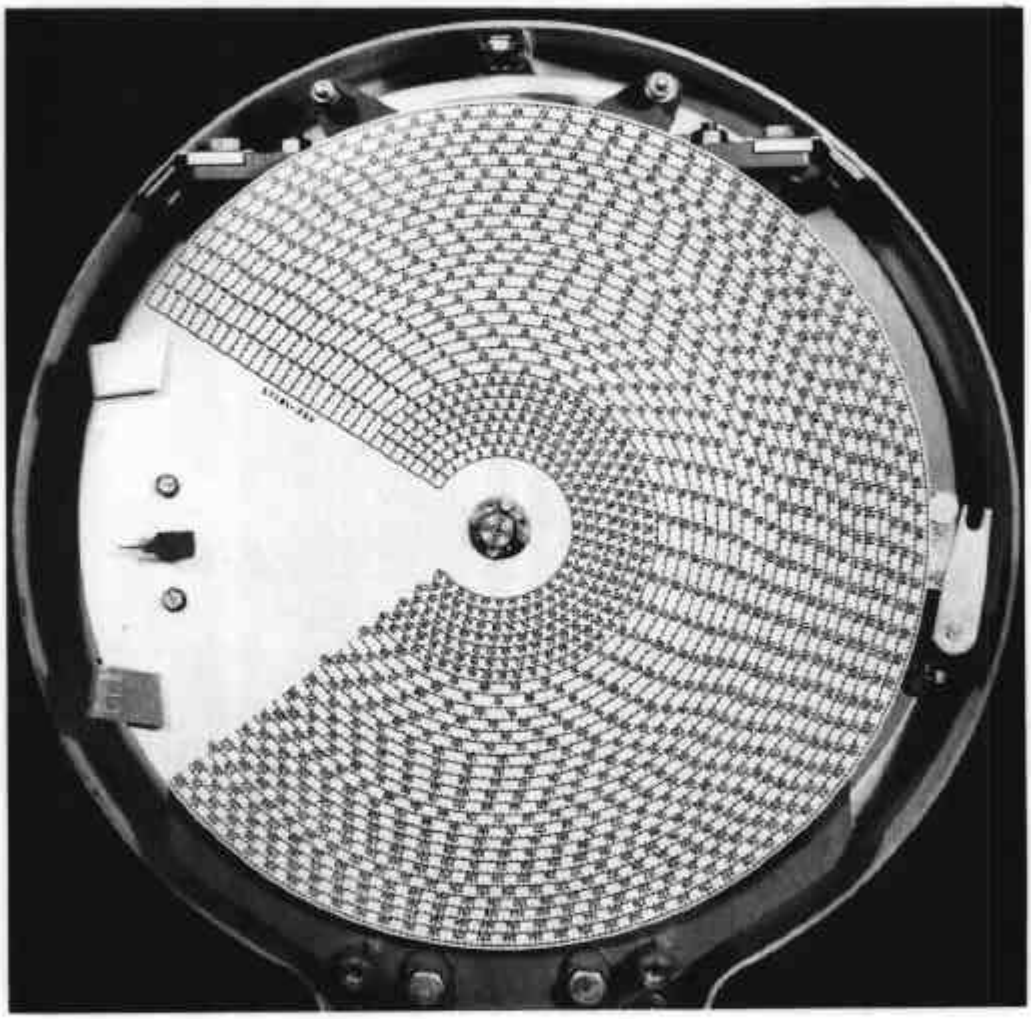
FIGURE 6/4C/4 - 8



Avery 1108 Price Chart

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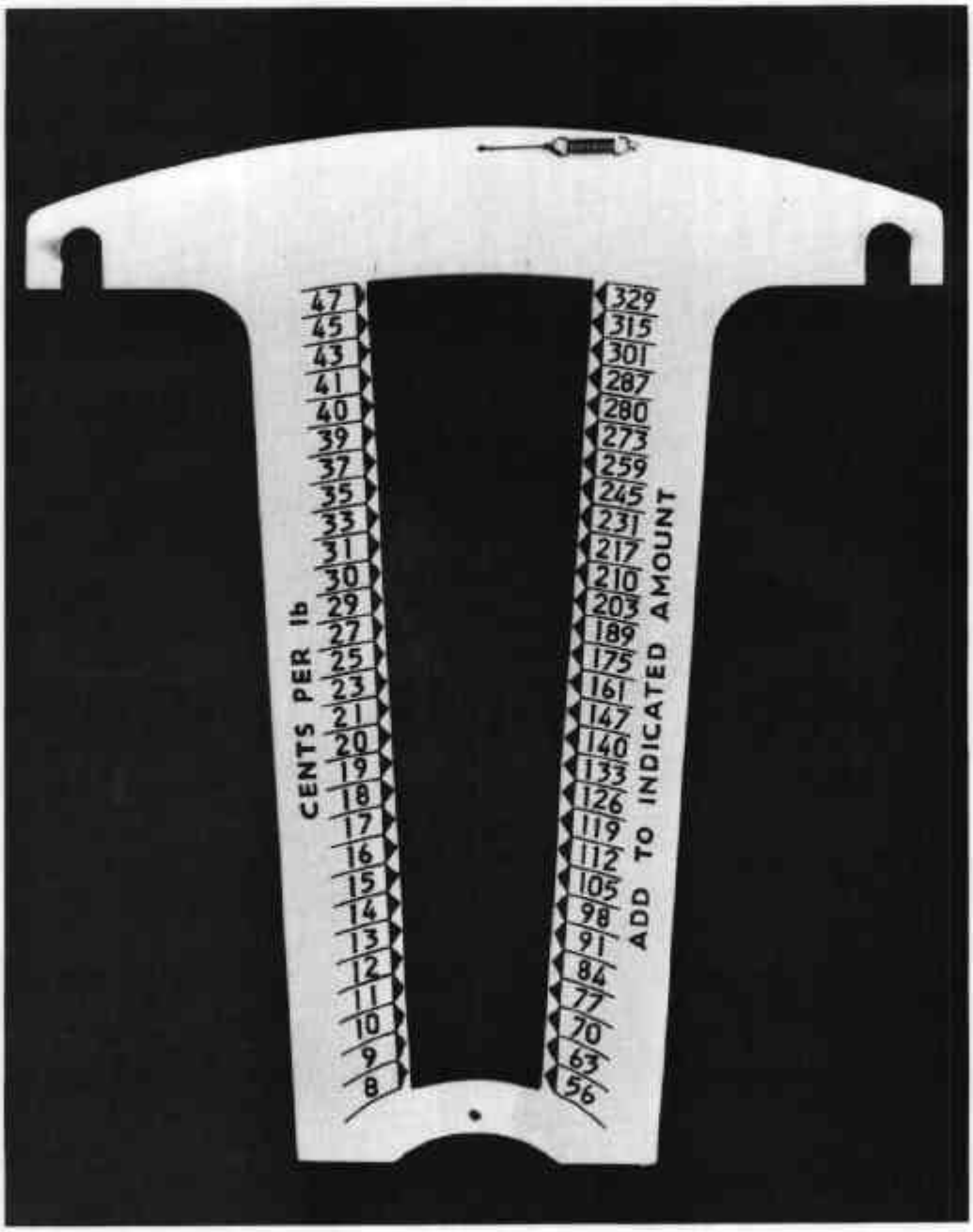
FIGURE 6/4C/4 - 9



Unit-price Frame

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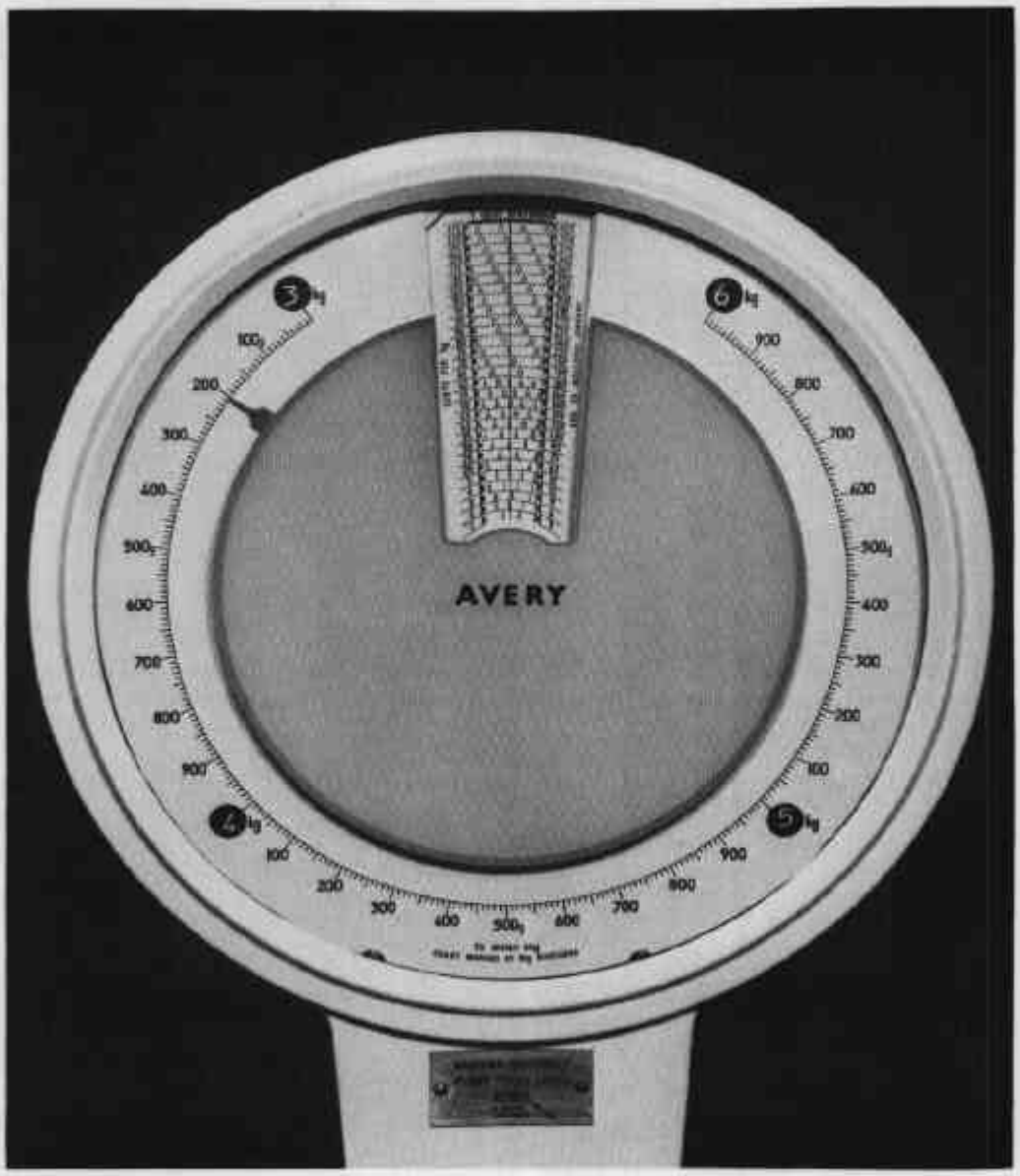
FIGURE 6/4C/4 - 10



Avery 1108 with 6-kg Weight Chart

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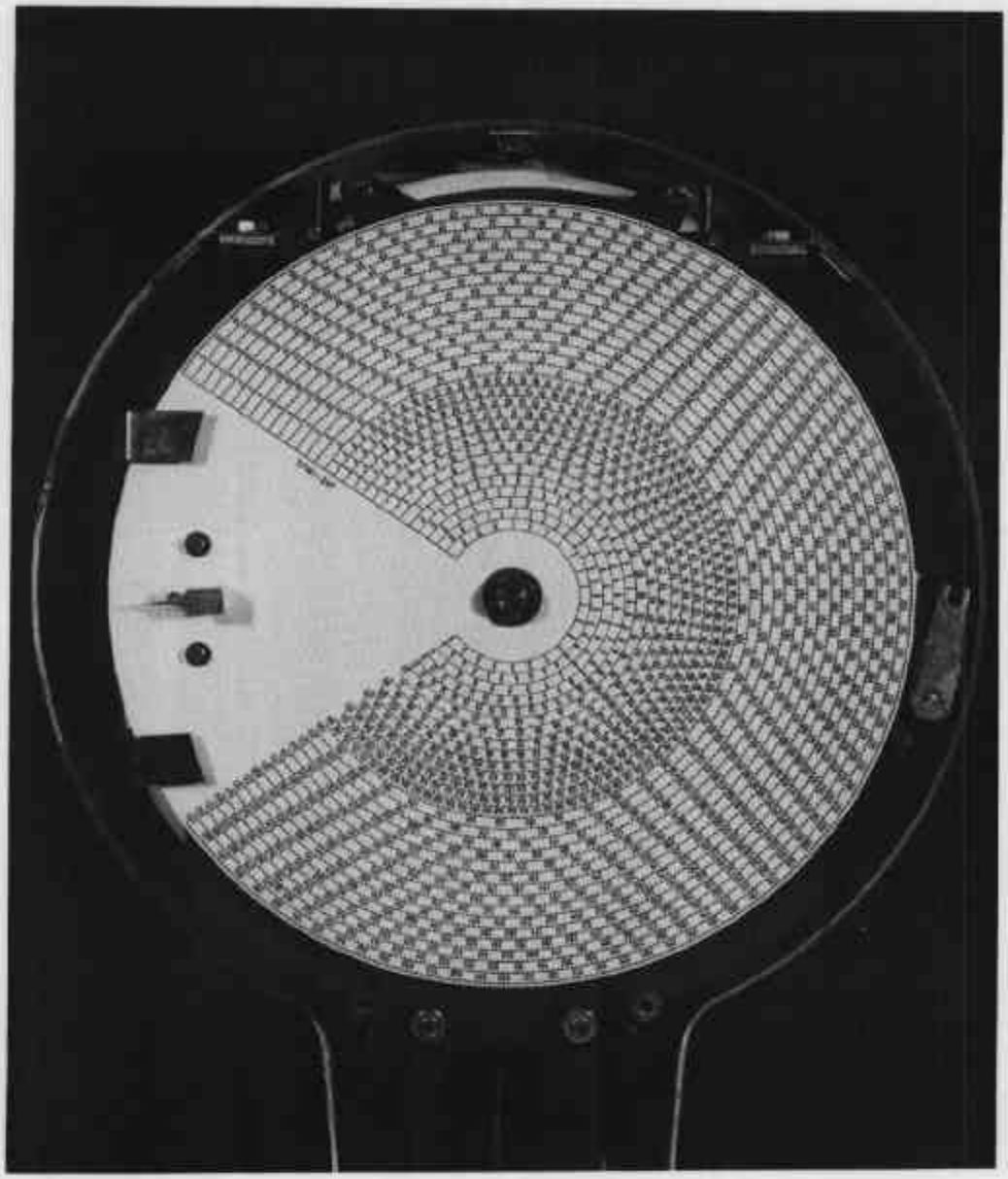
FIGURE 6/4C/4 - 11



Avery 1108 1-c/kg to 135-c/kg Price Chart
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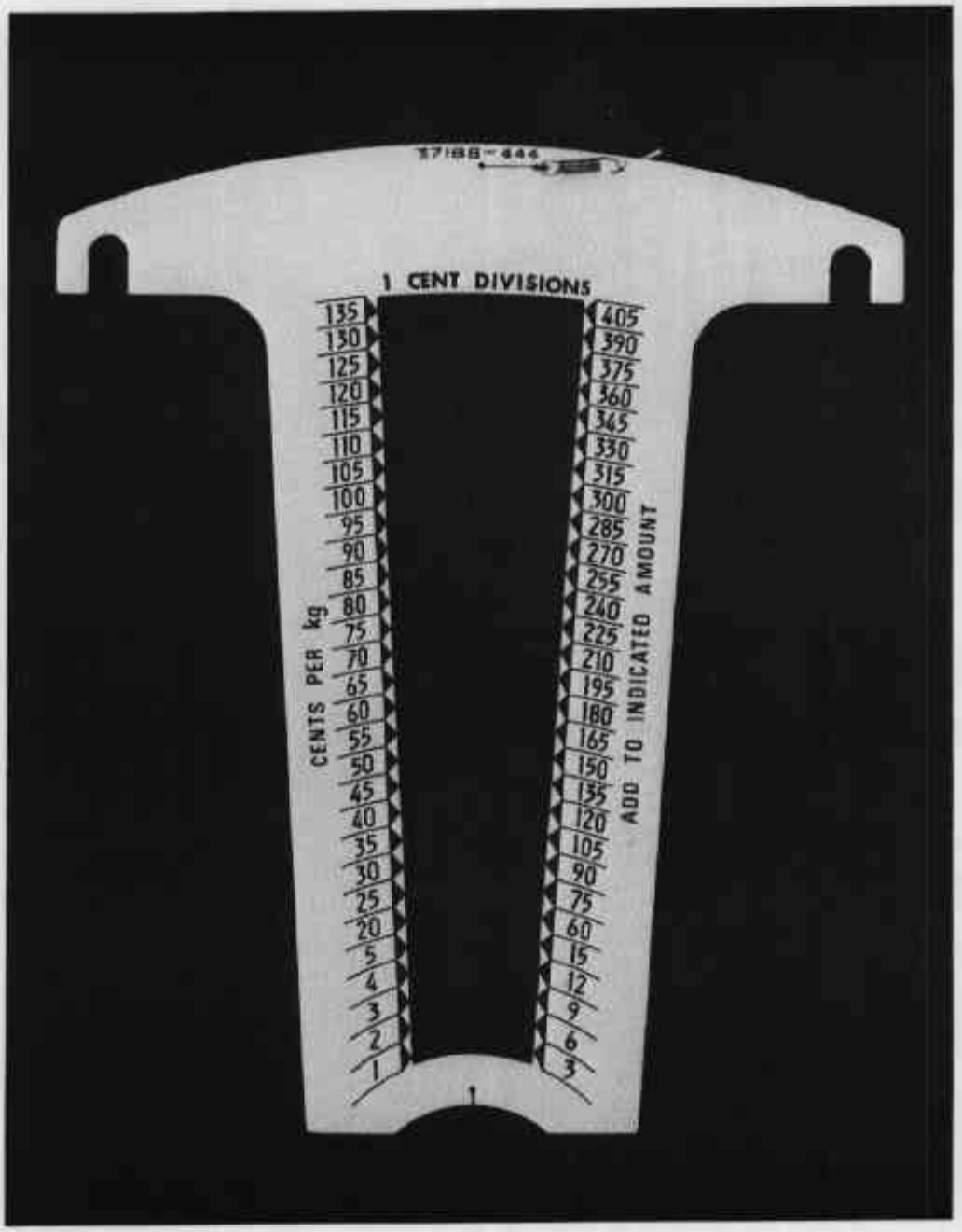
FIGURE 6/4C/4 - 12



Avery 1108 1-c/kg to 135-c/kg Unit-price Frame

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