



COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

Weights and Measures
(National Standards)
Act 1960-1966

Weights and Measures
(Patterns of Instruments)
Regulations

WITTORAWAL
Certificate of Approval

CERTIFICATE NUMBER 6/19/1

This Certificate replaces Certificate No 6/19/1 dated 29 June 1970. *

In respect of the pattern of

Toledo Self-indicating Weighing Instrument of 26 000-lb Capacity and Variants.

Submitted and
manufactured 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.

The pattern and variants 1 to 7 were approved on 23 July 1968.

Approval was granted on 24 June 1970 for the changing of the Certificate number from 6/10A/3 to 6/19/1 in respect of that part of the original approval which refers to the Livestock Scale.

Approval for the pattern and variants 1 to 7 was withdrawn on 30 July 1973.

* NOTE: Figures 6/19/1 - 1 to 6 of the previous issue form part of the Certificate and must be retained.

The pattern and variants are marked "NSC No 6/19/1", and comply with the General Specifications for Measuring Instruments to be Used for Trade, except in regard to the method of zero adjustment.

This Certificate comprises:


Pages 1 to 4 dated 16 August 1973.

Figure 6/19/1 - 1 dated 29 June 1970.

Figures 6/19/1 - 2 to 6 dated 12 May 1970.

Date of issue 16 August 1973.

Signed

A handwritten signature in cursive script, appearing to read "Philip S. Thompson".

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

†DESCRIPTION OF PATTERN

The pattern (see Figure 1) is of a self-indicating platform scale of 26 000-lb capacity with a steel-framed livestock enclosure built on to the platform. The enclosure has electrically operated entry and exit gates which are controlled from the weighman's console.

The basework lever system is similar in design to that described in Certificate No 6/10A/3. The platform is fitted with one longitudinal and two transverse flexible stays, one of which is shown in Figure 2, which restrict the platform motion to the vertical direction. The stays are bolted and dowelled to brackets, bolted and welded to plates set into the walls of the concrete pit (see Figure 3).

The pullrod from the basework to the headwork is fitted with a synthetic rubber block to reduce vibration transmitted from the platform to the headwork. This is seen in Figure 4, together with an additional dashpot connected directly to the pullrod in the lower section of the headwork cabinet to reduce the effect of rapid load fluctuations being applied to the main headwork lever. The headwork dashpots are adjusted so that the indicator takes not less than six seconds to return to zero from a stationary indication of 10 graduations from zero.

The headwork (see Figure 5) consists of a One-Spot Reading self-indicating chart described in Certificate No 6/9C/2. The chart capacity is 6000 lb graduated in 10-lb increments. Four unit weights equivalent to 5000 lb each can be added automatically using the Autorange system, also described in Certificate No 6/9C/2.

The self-indicating headwork is fitted with a Toledo Model 460 RDT Printweigh ticket printer (see Figure 6), which is described in Certificate No 6/9C/2. The ticket has printed on it: the weight in pounds a ten-digit code number, and the date. The code number is selected on a keyboard and is used to record the details of the livestock being weighed.

Also fitted to the headwork is an off-zero warning light and audible alarm. The device consists of a pair of photo-electric switches operated by a blade mounted on the ticket-printing disc. The switches are set so that the alarm operates below 75 lb if the indicator is off zero by an amount greater than the zero-setting tolerance. A notice

† Approval withdrawn 30 July 1973.

stating "scale not on zero if alarm horn operates" and a warning light labelled "alarm cancelled by weighman" are visible to users of the scale. A hand-operated knob on the front of the headwork cabinet is used to set the scale to zero.

DESCRIPTION OF VARIANTS

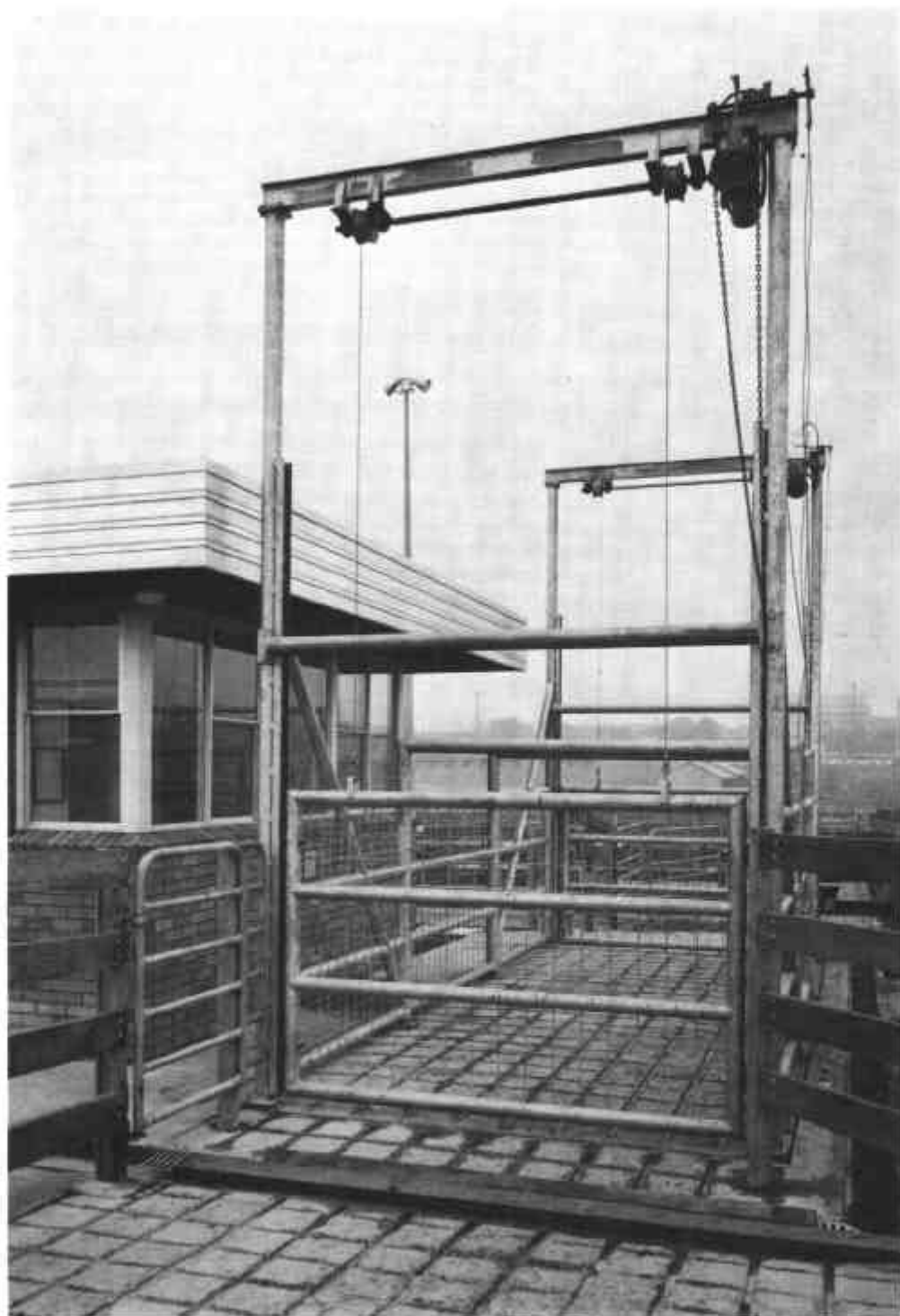
- †1. In other capacities up to 31 tons.
- †2. With up to nine combinations of unit weights operated manually in place of the automatic unit-weight mechanism.
- †3. Having the self-indicating headwork fitted with any of the forms of indication and ticket-printing devices described in Certificate No 6/9C/2.
- †4. Having the self-indicating headwork fitted with tare bars.
- †5. Having the headwork located in any reasonable position in relation to the platform, in which case extra transfer levers may be used, provided they are fully protected.
- †6. Having the straight lever system of the basework of the pattern replaced by the torsion-tube lever system described in Certificate No 6/10B/12.
- †7. Having other photo-electric switches used for alarm or control purposes. If used to control the weight of the load, the weight must not be read from the presetting indicator.

GENERAL NOTES

The pattern has been withdrawn because the knob-operated zero device on the cabinet has been found to be unsuitable for use for trade. Furthermore, the livestock cage is not significant to pattern approval and variants 1 to 7 are redundant, having been approved in Certificate No 6/10A/3.

† Approval withdrawn 30 July 1973.

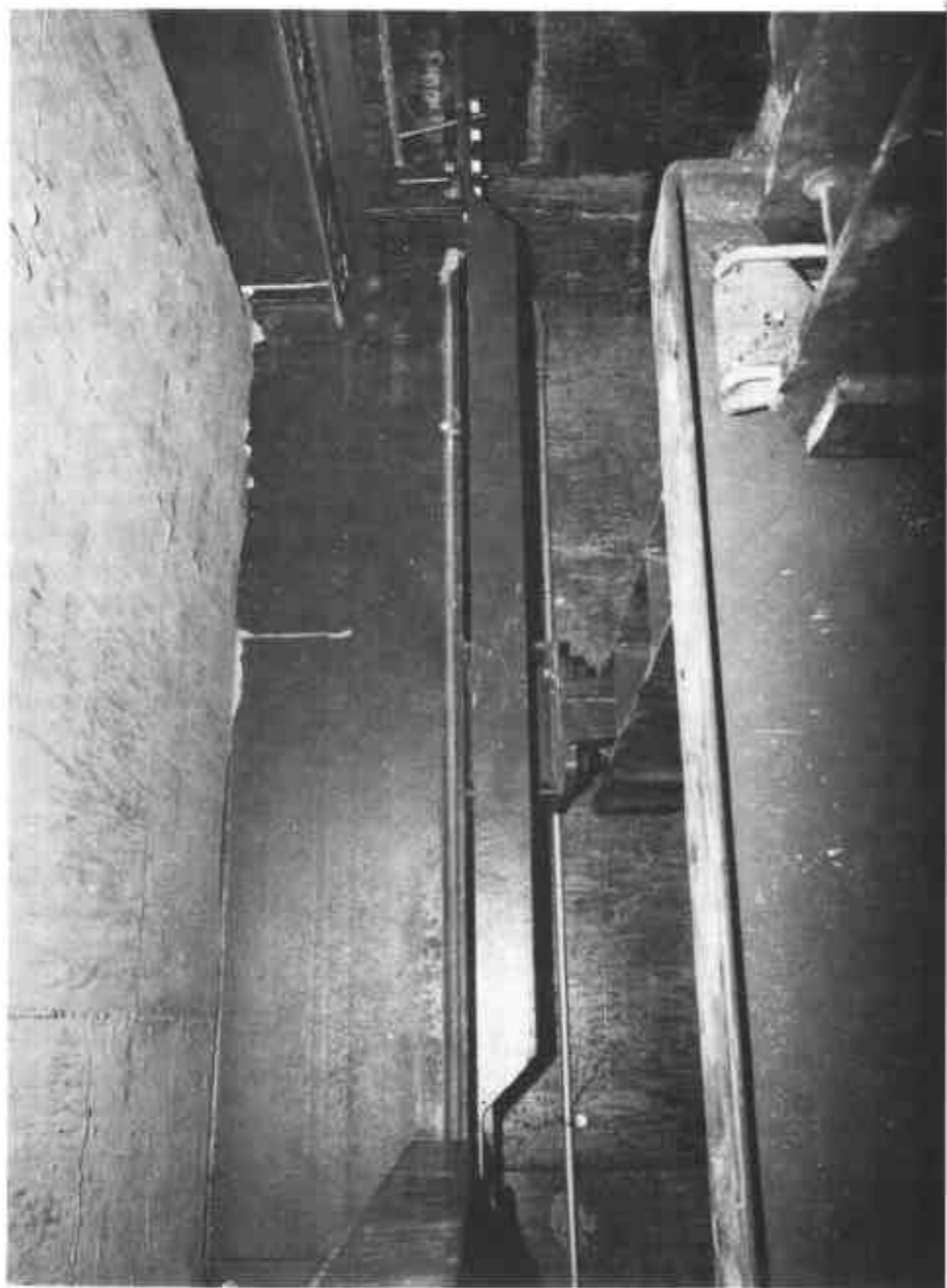
FIGURE 6/19/1 - 1



Livestock Scale

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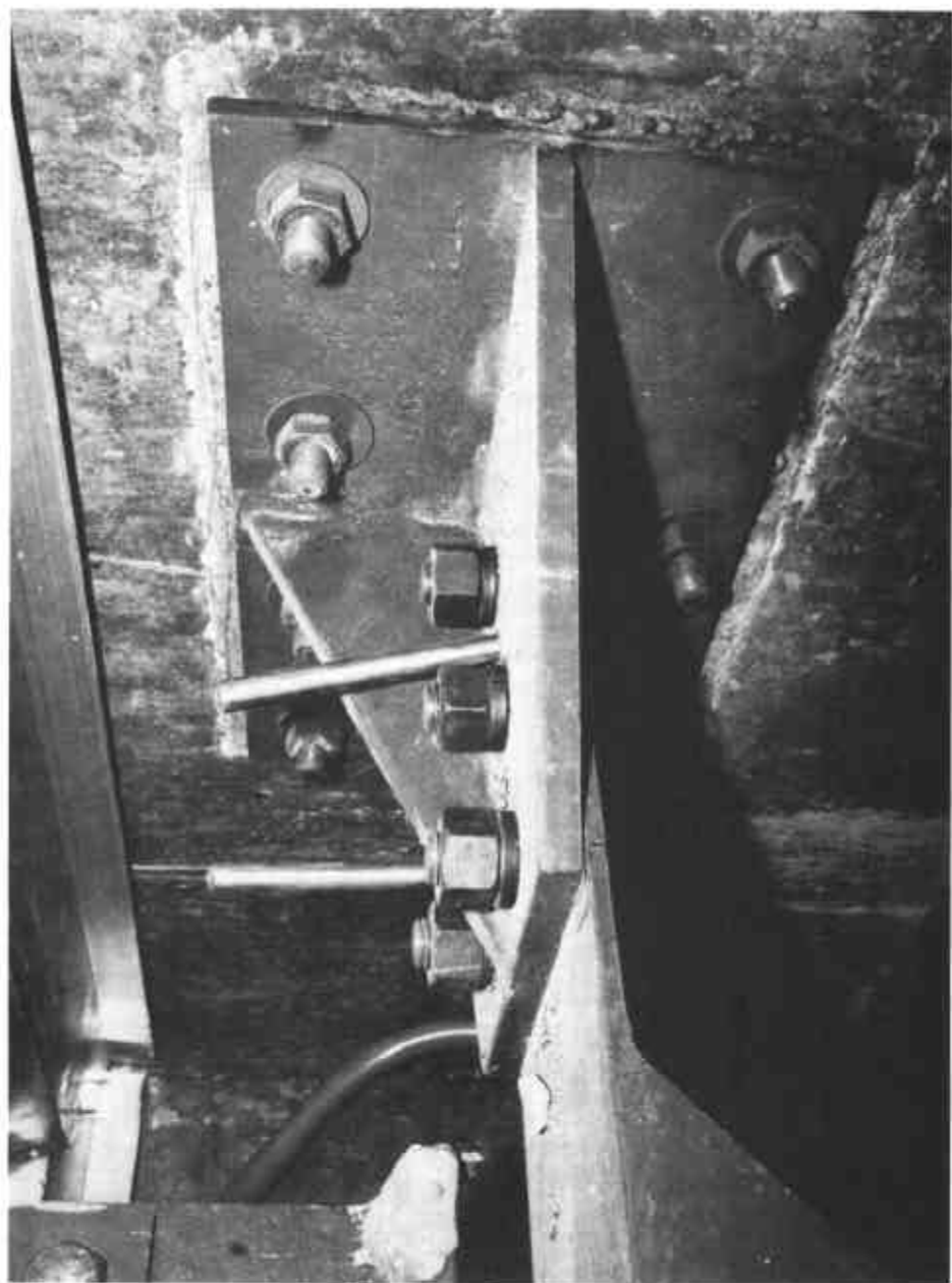
FIGURE 6/19/1 - 2



Longitudinal Platform Stay

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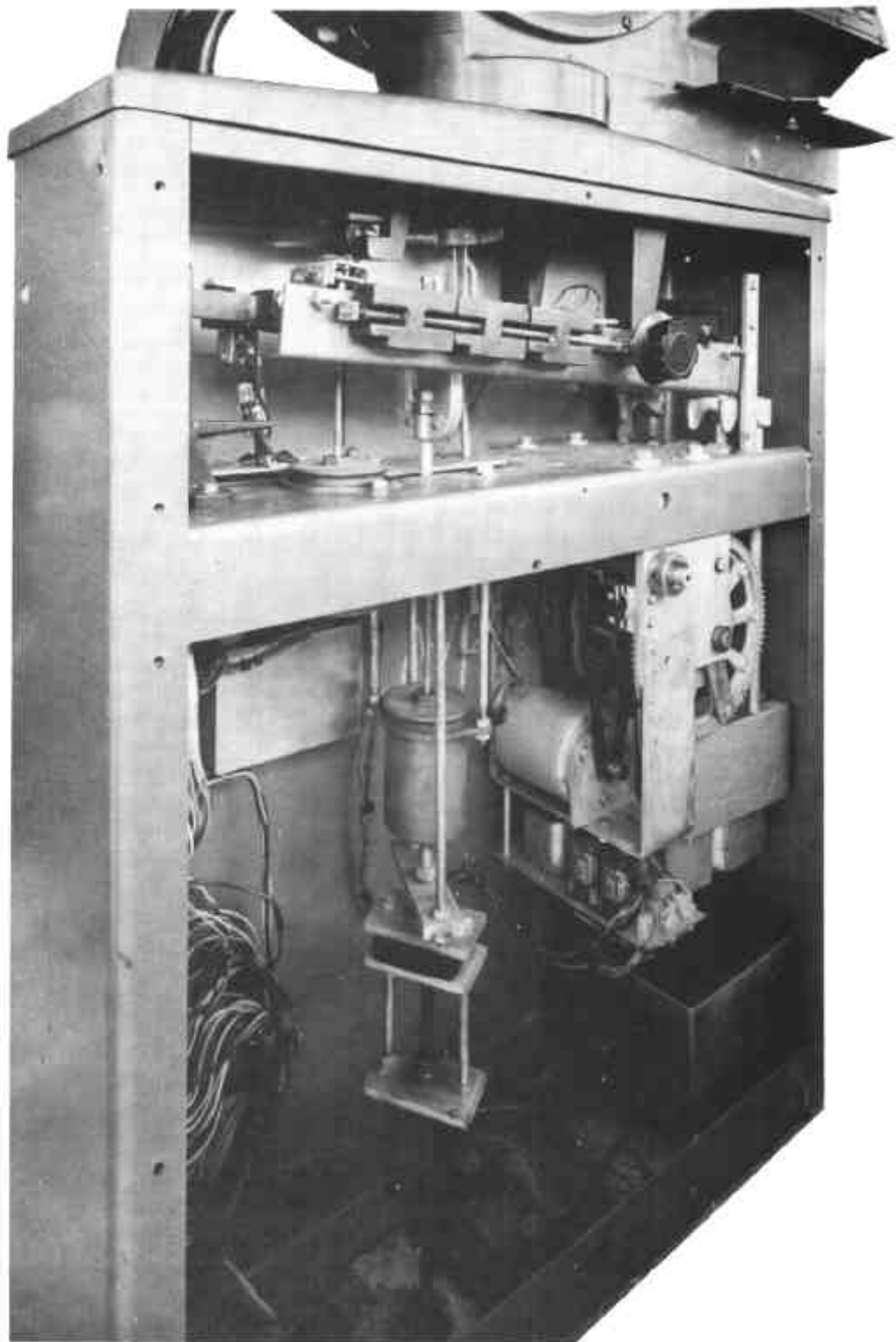
FIGURE 6/19/1 - 3



Platform Stay Bracket

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FIGURE 6/19/1 - 4



Headwork Cabinet

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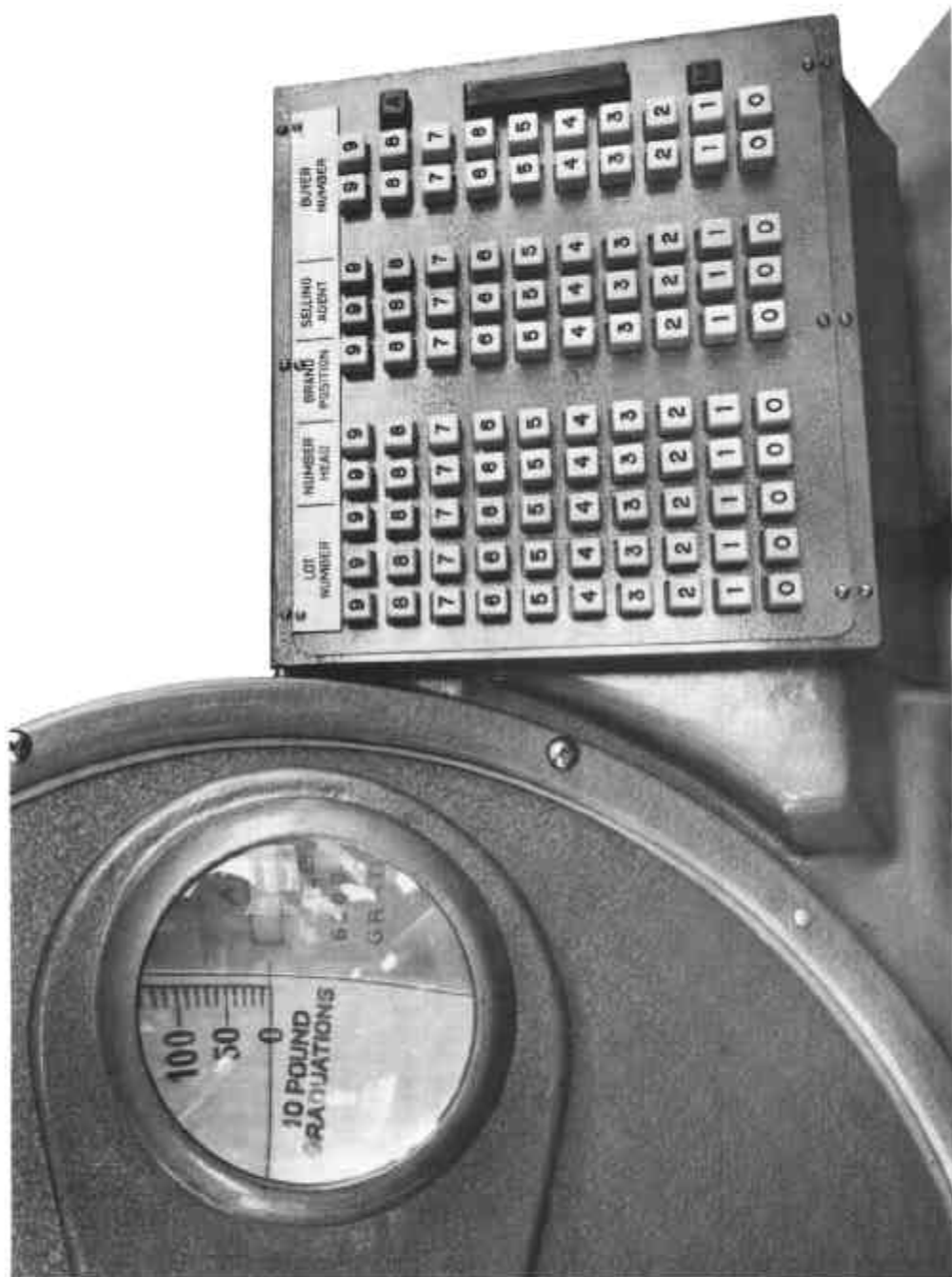
FIGURE 6/19/1 - 5



Headwork and Control Panel

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FIGURE 6/19/1 - 6



One-Spot Indicator and Ticket Printer

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