



NATIONAL STANDARDS COMMISSION

CERTIFICATE OF APPROVAL No 6/4D/75 CANCELLED

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This is to certify that the pattern and variants of the Bizerba Weighing Instrument EW 1051A

submitted by Globus-Bizerba Pty Ltd,
152-156 Edinburgh Road,
Marrickville, New South Wales, 2204,

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

Pattern: approved 11/10/77

Model 1051A: Price-computing weighing instrument of capacity 4,995 kg by 0,005 kg, with unit price to \$99,99/kg and price to \$499,45.

Variation No 1: approved 13/2/79

- 1. Model EW 1010B: capacity 9,99 kg by 0,01 kg with unit price to \$99,99/kg and price to \$998,90.
- 2. With selection switch for cancellation or retention of unit price.

Variation No 2: approved 23/4/80

- 3. Model 1010B: with manual tare.
- 4. Prepackaging instrument: Model 1010B with Compulabeler printer C420 or C431.

The pattern and variants are described in Technical Schedule No 6/4D/75 and Variations Nos 1 and 2 issued on 22/12/77, 19/3/79 and 27/6/80 and in drawings and specifications lodged with the Commission.

The approval is subject to review on or after 1/10/82.

All instruments conforming to this approval shall be marked with the approval number "NSC No 6/4D/75".

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This Certificate replaces those issued on 22/12/77 and 19/3/79, which may be destroyed.

Signed *Raymond A. F. ...*

Acting Executive Director.

27/6/80



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/75

Pattern: Bizerba Weighing Instrument EW 1051A

Submittor: Globus-Bizerba Pty Ltd,
150-152 Edinburgh Road,
Marrickville, New South Wales, 2204.

Date of Approval: 11 October 1977

All instruments conforming to this approval shall be marked "NSC No 6/4D/75".

Description:

The pattern (see Figures 1 and 2) is a self-indicating price-computing weighing instrument of capacity 4,995 kg by 0,005 kg, with price computing in 1-c increments to \$99,99/kg and total price to \$499,45. Weight, unit price and total price are digitally indicated on both the vendor's and purchaser's sides. The unit price is entered sequentially by ten push-buttons and cancelled by pressing a button marked "C".

The load receptor is stayed and supported by the main lever which applies the load to a spring-resistant mechanism (see Figures 3 and 4). A graticule on the end of the main lever passes through a photo-electric pulse generator, which provides a number of pulses proportional to the deflection of the lever. These pulses are counted and converted to a weight indication and in the computer multiplied by the unit price to allow the total price to be indicated.

A tool-operated zero adjustment, which varies the load on a spring resistant connected to the load-receptor support, is accessible from the side of the instrument. A "zero" light illuminates when the instrument is within 0,25 graduation of zero. A weighing-mechanism locking device is provided on the top of the instrument.

The instrument is provided with a level indicator and adjustable feet. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

Successive operations of a display test button will blank out the

indicators or display "all-8" while the button is depressed. This checks that the display is working correctly.

The instrument is marked adjacent to each weight reading face:

(III)

Max	=	4,995 kg
Min	=	0,1 kg
$d_a = e$	=	0,005 kg

Special Tests:

1. Zero range — check that the range of the zero adjustment is not more than 0,2 kg and that when the instrument indicates zero the adjustment is within 0,02 kg of the centre of its range.
2. Zero balance — check by means of the Commission's digital zero test (Design Manual No 1, Document 104, Testing Procedure for the Elimination of Rounding Error for Weighing Instruments with Digital Indication) that, when the "zero light" is illuminated, zero is set within 0,25 e of zero.
3. Price-computing and weight circuits — the indications of weight, unit price and total price, as listed in Table 1, will indicate that the price-computing and weighing circuits are functioning correctly. The exact figures should be indicated as rounding is effected within the computer.

Note: This test does not establish correct weight indications; a separate test in accordance with the Commission's recommended test procedures for the elimination of rounding errors — Document 104 — is necessary.

4. Level sensitivity — when the instrument is tilted so that the bubble in the level indicator moves 2 mm, zero should not change by more than two graduations, and when zero is reset in the tilted position the instrument should satisfy the weighing-accuracy specification, that is, $\pm \frac{1}{2}$ graduation for the first 500 graduations and ± 1 graduation for graduations over 500 and up to 1000 graduations.
5. Range of indication —
 - (a) the maximum weight indicated should not exceed 4,995 kg; above this indicated weight the indicator should be blank;

- (b) the minimum weight indicated should be zero; below this indicated weight the indicator should be blank.
6. Power interruption — with a load on the instrument check that, when the supply voltage is interrupted due to the power point being turned off, or the power switch on the instrument being turned off, and the power is turned on again, the indications remain blank.
 7. Locking device — check that the indicators become blank before the locking device operates.
 8. Display test button — check that successive operations of the display test button blank out all indicators or display "all-8" when the instrument is loaded or below zero load.

TABLE 1

Indicated weight	Price per kg	Total price
kg	\$	\$
0,000	00,00	00,00
0,100	99,90	9,99
0,105	98,99	10,39
0,110	97,99	10,78
0,120	96,99	11,64
0,130	95,99	12,48
0,140	94,99	13,30
0,150	93,99	14,10
0,160	92,99	14,88
0,170	91,90	15,62
0,180	90,98	16,38
0,190	89,88	17,08
0,200	79,77	15,95
0,300	69,66	20,90
0,400	59,55	23,82
0,500	49,44	24,72
0,600	39,33	23,60
0,700	29,22	20,45
0,800	19,11	15,29
0,900	09,01	08,11
1,000	20,33	20,33
1,500	20,98	31,47
2,000	25,99	51,98
2,500	24,98	62,45
3,000	56,99	170,97
3,500	81,98	286,93
4,000	99,89	399,56
4,995	99,99	499,45

Test Procedure — 4,995-kg Instrument with
Unit Price to \$99,99/kg

TABLE 2

Indicated mass	Price per kg	Price
kg	\$	\$
0,00	00,00	00,00
0,20	99,99	20,00
0,21	98,98	20,79
0,22	97,97	21,55
0,33	96,96	32,00
0,34	95,95	32,62
0,45	94,94	42,72
0,46	83,83	38,56
0,57	72,72	41,45
0,58	61,61	35,73
0,69	50,51	34,85
0,65	49,49	32,17
0,70	39,39	27,57
0,75	29,29	21,97
0,80	19,19	15,35
0,85	09,09	07,73
0,90	55,16	49,64
1,10	53,31	58,64
2,00	58,99	117,98
3,00	70,99	212,97
4,00	75,99	303,96
5,00	80,99	404,95
6,00	94,38	566,28
7,00	96,99	678,93
8,00	97,99	783,92
9,00	98,99	890,91
9,99	99,99	998,90

Test Procedure — 9,99 kg Instrument by 0,01 kg Scale Intervals
with Unit Price to \$99,99 and Price to \$998,90



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/75

VARIATION No 1

Pattern: Bizerba Weighing Instrument EW 1051A

Submittor: Globus-Bizerba Pty Ltd,
150-152 Edinburgh Road,
Marrickville, New South Wales, 2204.

Date of Approval of Variation: 13 February 1979

The modifications described in this Schedule apply to the pattern described in Technical Schedule No 6/4D/75 dated 22 December 1977.

All instruments conforming to this approval shall be marked "NSC No 6/4D/75".

Description:

The approved modifications provide for:

1. A capacity of 9,99 kg by 0,01 kg scale intervals with price computing in 1c increments to \$99,99/kg and price to \$998,90. Mass, unit price, price and zero balance are indicated on both the vendor's and purchaser's sides of the instrument.

The instrument is marked adjacent to each mass indicator:

III

Max	=	9,99 kg
Min	=	0,2 kg
$d_t = e$	=	0,01 kg

2. An external switch which allows the vendor to select whether the unit price automatically cancels after a weighing or whether the unit price is retained after a weighing until the cancel button is pressed.

Special Tests:

The special tests described in Technical Schedule No 6/4D/75 dated 22 December 1977 apply to this variation except that in the Price-computing and Weight Circuits test Table 1 is replaced by Table 2.

19/3/79



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/75

CHANGE No 1

The description of the

Bizerba Weighing Instrument EW 1051A

given in Technical Schedule No 6/4D/75 - Variation No 1, is altered by identifying the first variant as Model EW 1010B. The document should read:

"Description:

The approved modifications provide for:

1. Model EW 1010B with a capacity of 9,99 kg by 0,01 kg scale intervals....."
etc.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/75

VARIATION No 2

Pattern: Bizerba Weighing Instrument EW 1051A

Submitter: Globus-Bizerba Pty Ltd,
152-156 Edinburgh Road,
Marrickville, New South Wales, 2204.

— Description of Variants:

3. Model 1010B: the instrument with manual taring device of capacity up to 0,200 kg (Figure 5). A container placed on the load receptor is tared to within $\pm 0,25e$ when the tare device is adjusted so that TARE and ZERO lights are both illuminated. When the container is removed the zero light goes out and the indicator shows blank.

The instrument is marked with the following data:

Manufacturer's name	
Serial number of instrument	
NSC approval number in the form:	NSC No 6/4D/75
Accuracy class in the form:	(III)
Maximum capacity in the form:	Max
Minimum capacity in the form:	Min
Verification scale interval in the form:	$d_u = e = \dots\dots$
Maximum additive tare in the form:	$T = + \dots\dots$

— and NOT FOR RETAIL COUNTER USE.

Mass and price indications are provided only on the operator's side of the instrument.

4. A prepackaging weighing instrument comprising a Model EW 1010B weighing instrument and a Bizerba Compulabeler self-adhesive label printer Model C420 or C431 (Figures 6 and 7).

The printers are both sealed to prevent access to components the removal of which could affect the performance of the instrument (Figures 6 and 7).

The weighing instrument is fitted with a data cable output socket. The serial number of the printer is sealed to the weighing unit (Figure 5). Sample labels are illustrated in Figures 8 and 9.

FIGURE 6/4D/75 - 1



Bizerba EW 1051A — Vendor's Side

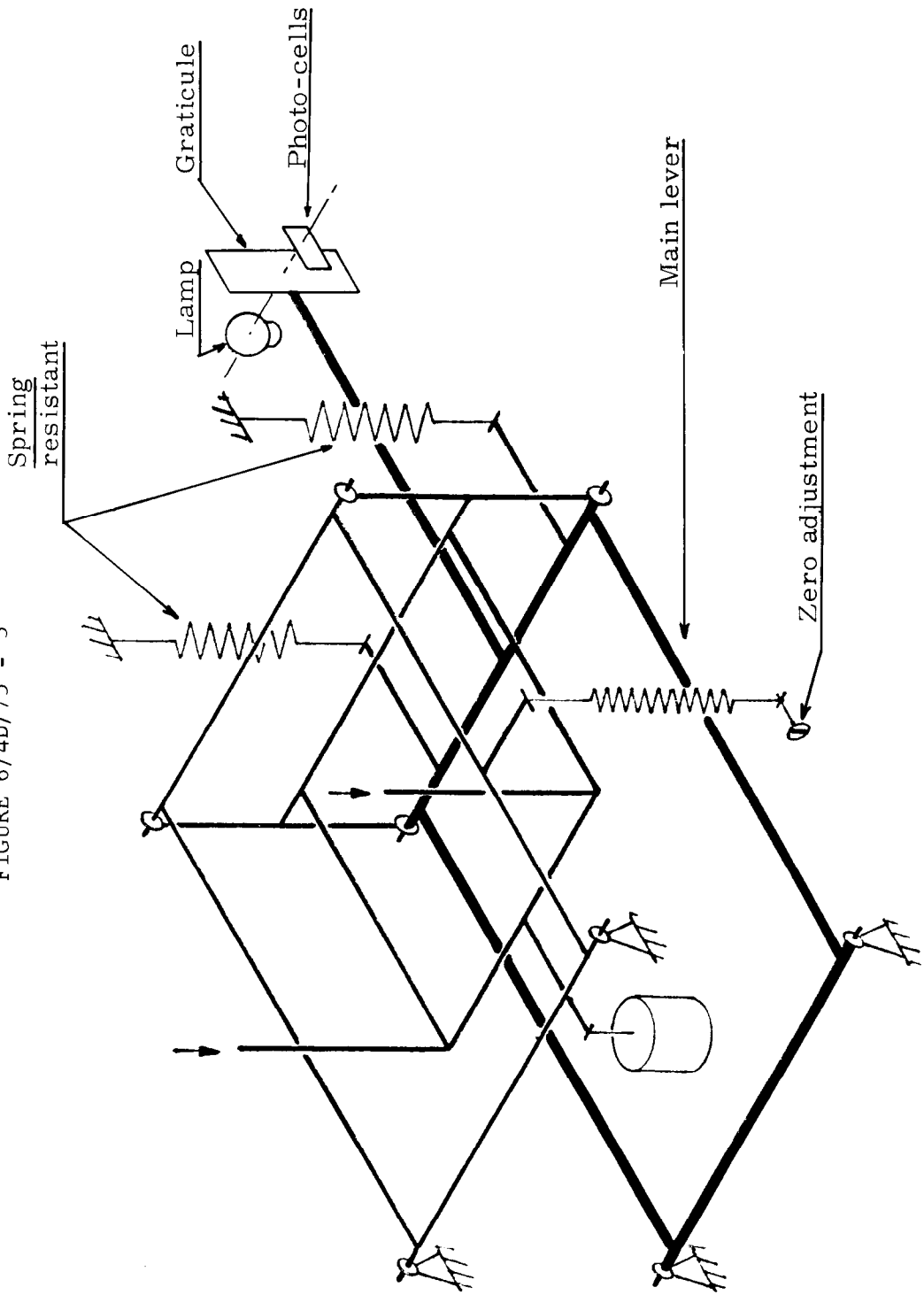
FIGURE 6/4D/75 - 2



Bizerba EW 1051A — Purchaser's Side

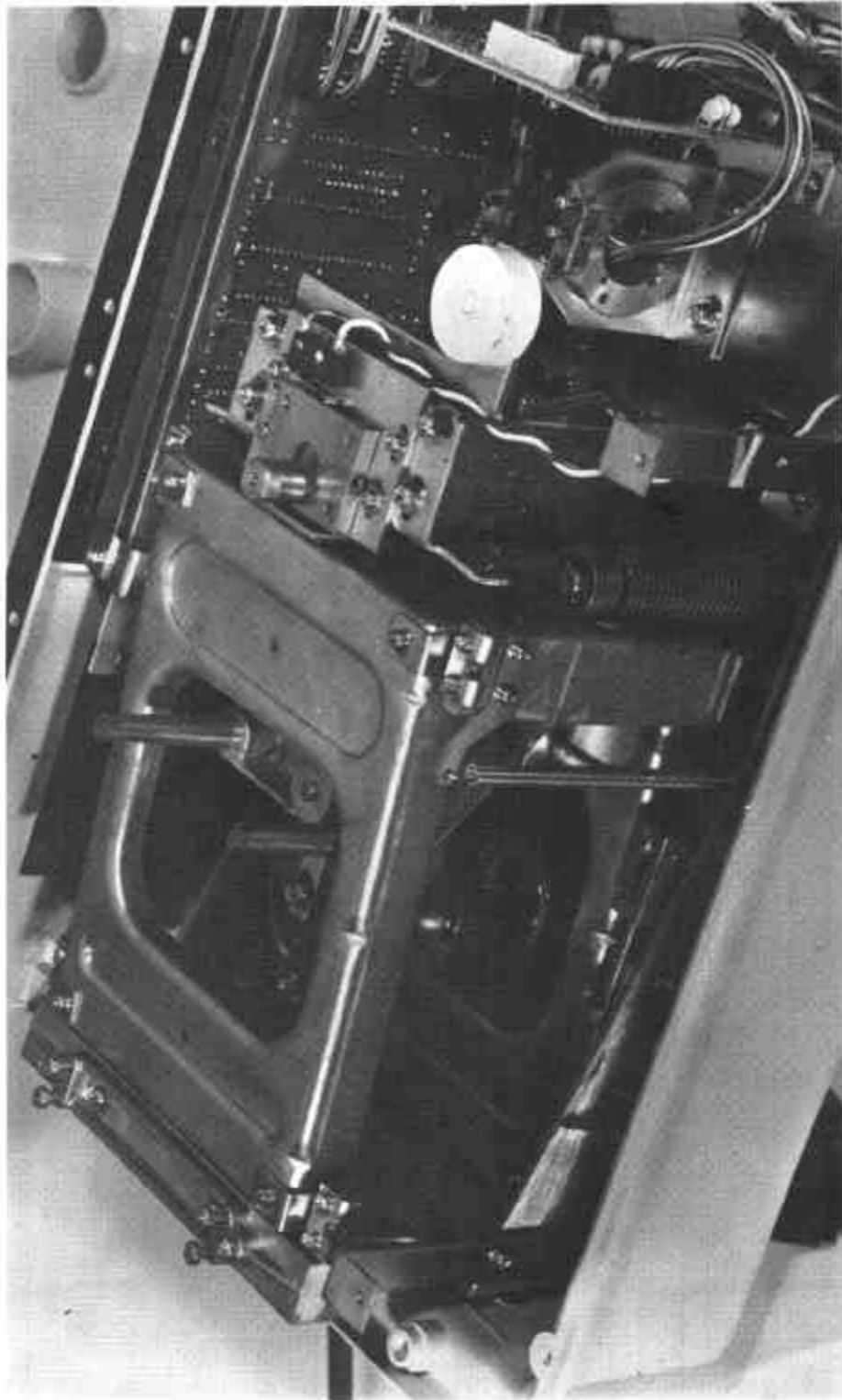
22/12/77

FIGURE 6/4D/75 - 3



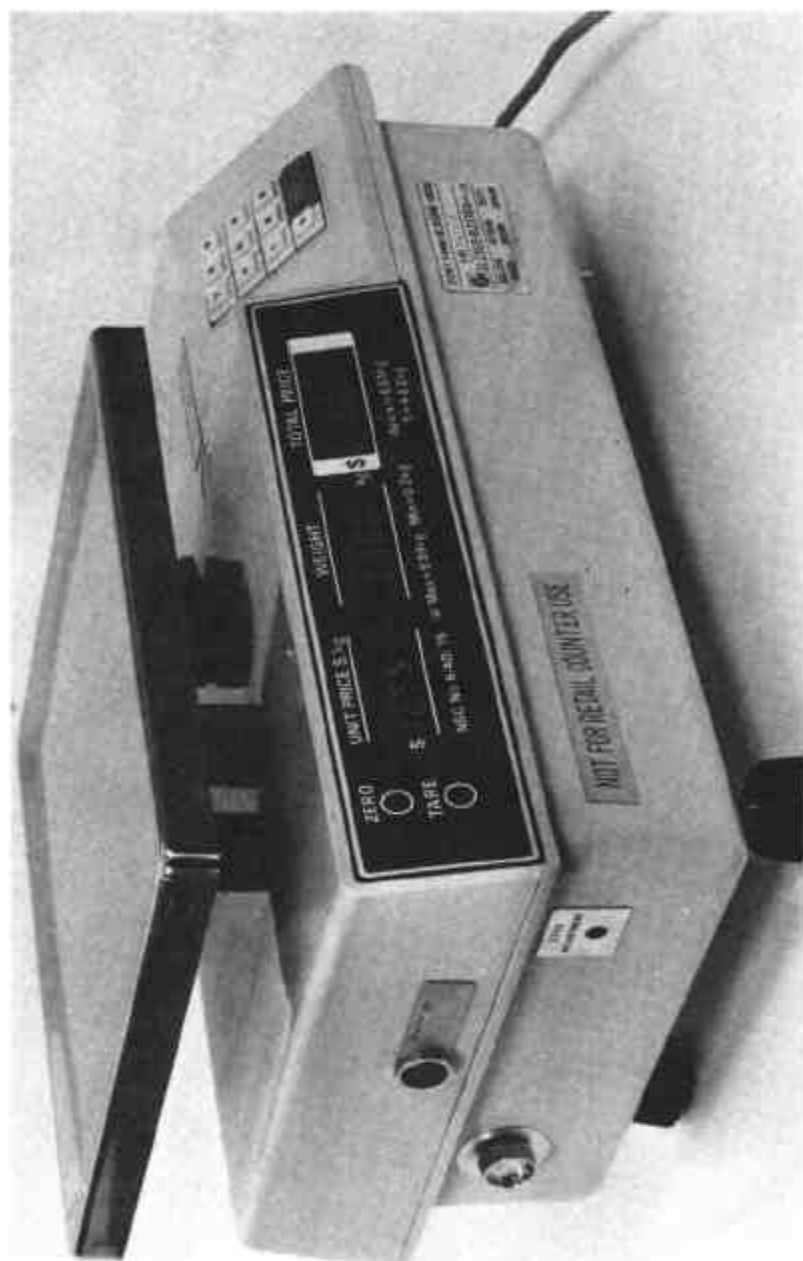
Bizerba EW 1051A — Schematic Drawing of Lever System

FIGURE 6/4D/75 - 4



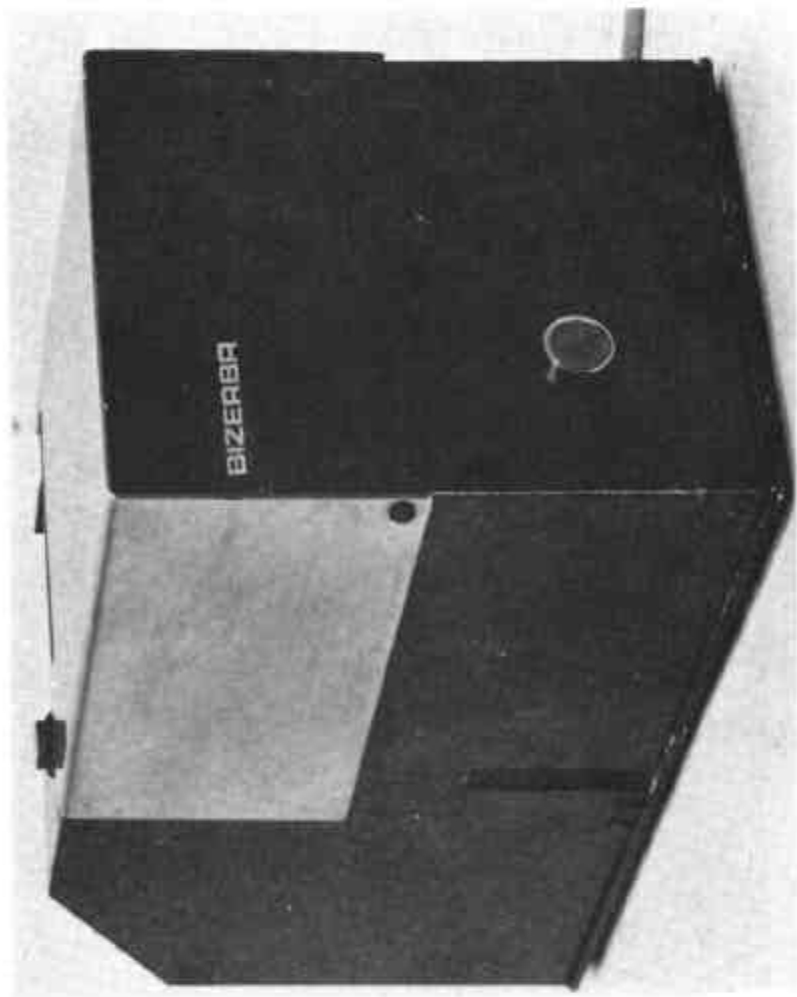
Bizerba EW 1051A — Lever System and Resistant Mechanism

FIGURE 6/4D/75 - 5



Bizerba Model 1010B

FIGURE 6/4D/75 - 6



Bizerba Printer Model 1 C420

FIGURE 6/4D/75 - 7



Bizerba Printer Model C431

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