



NATIONAL STANDARDS COMMISSION
WEIGHTS AND MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 4/5/12

This is to certify that an approval has been granted by the Commission that the pattern and variants of the

J D Model EMU CHIC Liquor Dispenser

submitted by J D Engineering Services Pty Ltd
8 Jones Road
Capalaba, Queensland, 4157,

are suitable for use for trade.

The approval of the pattern and variants 1 and 2 expired on 1/6/81 (refer to Verification Advice on Page 2).

The approval of variants 3, 4 and 5 is subject to review on or after 7/2/86.

Instruments purporting to comply with this approval shall be marked NSC No 4/5/12.

The approval may be withdrawn if instruments are used other than as described in the drawings and specifications lodged with the Commission.

Signed


Executive Director

Descriptive Advice

Pattern: approved 25/11/77 - expired 1/6/81

- J D model EMU CHIC liquor dispenser of 15 mL capacity.

Technical Schedule No 4/5/12 dated 22/12/77 describes the pattern.

Variants: approved 8/9/78 - expired 1/6/81

1. The pattern with 30 mL capacity.
2. With the internal electronic timing mechanism replaced by a mechanical interlock mechanism and of 15 mL or 30 mL capacity.

Technical Schedule No 4/5/12 Variation No 1 dated 20/9/78 describes variants 1 and 2.

Variant: approved 9/6/81

3. With modified dispensing chamber, and without gauge lines and notice, with electronic or mechanical timing mechanism and of 15 mL or 30 mL capacity.

Technical Schedule No 4/5/12 Variation No 2 dated 29/6/81 describes variant 3.

Variant: approved 22/6/83

4. With increased reservoir capacity.

Technical Schedule No 4/5/12 Variation No 3 dated 12/7/83 describes variant 4.

Variant: approved 26/9/83

5. Mechanically operated unit of 15 ml capacity.

Technical Schedule No 4/5/12 Variation No 4 dated 14/10/83 describes variant 5.

Verification Advice

New instruments conforming to the pattern and variants 1 and 2 should not be verified after 1/6/81. Instruments verified before 1/6/81 may be reverified.

New instruments conforming to variants 3, 4 or 5 may be verified.

Filing Advice

Certificate of Approval No 4/5/12 dated 12/7/83 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 4/5/12 dated 14/10/83
Technical Schedule No 4/5/12 dated 22/12/77 (including Special Tests)
Technical Schedule No 4/5/12 Variation No 1 dated 20/9/78
Technical Schedule No 4/5/12 Variation No 2 dated 29/6/81
Technical Schedule No 4/5/12 Variation No 3 dated 12/7/83
Technical Schedule No 4/5/12 Variation No 4 dated 14/10/83
Figures 1 to 3 dated 22/12/77
Figures 4 to 6 dated 29/6/81.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 4/5/12

Pattern: J.D. Liquor Dispenser Model EMU CHIC

Submittor: J. D. Engineering Services Pty Ltd,
8 Jones Road,
Capalaba, Queensland, 4157.

Date of Approval: 25 November 1977

Conditions of Approval:

1. There is not more than one measurement of less than 14,4 ml or greater than 15,6 ml in a sample of 10 measurements taken from a bottle which is approximately 75% full, and the mean of such 10 measurements is not less than 15 ml.
2. The instrument is installed so that the purchaser can clearly see the gauge glass and gauge lines.

All instruments conforming to this approval shall be marked "NSC No 4/5/12".

Description:

The pattern (see Figures 1 and 2) is a single-delivery push-button-operated bottle dispenser for the measurement of 15 ml of brandy, whisky, vodka, gin, or rum.

It consists of a measuring chamber surmounted by a gauge glass which indicates to the purchaser and the vendor that the measuring chamber is correctly filled before a delivery, and an internal valving arrangement operated by a motorised timing mechanism which allows a measured quantity of liquid to be dispensed into a container. Adjacent to the gauge glass is a notice advising that the liquid level must be between the gauge lines before a delivery.

Weights and Measures inspectors should note that, provided the liquid level is between the gauge lines, the measurement of a full quantity of liquid is independent of the operator's control and depends on the internal timing mechanism. A delivery once started cannot be stopped by the operator and, a delivery having

been made, a further delivery cannot be started until the measuring chamber has had sufficient time to refill.

A removable bottle adaptor with a valve* between the measure and the bottle allows bottles to be replaced without removing the measure from its mount. A counter may be fitted.

The instrument is clearly and permanently marked "15 ml". The instrument has provision for a Weights and Measures seal to be affixed (see Figure 3).

Special Tests:

The instrument would be adequately tested if 10 deliveries are made from a bottle not less than 3/4 full at the beginning of the test and the resultant total delivery is not less than 150 ml.

If water is used for testing this measure and the measuring bowl fails to drain completely, it will be necessary to add approximately one part alcohol to 3 parts water to reduce the surface tension of the test liquid. Methylated spirits can be used as the source of alcohol.

* Inspectors should note that a change in the length or placement of the bottle adaptor can affect the level of liquid in the gauge glass. However, such manipulation should be evident to the purchaser and vendor.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 4/5/12

VARIATION No 1

Pattern: J.D. Liquor Dispenser Model EMU CHIC

Submittor: J.D. Engineering Services Pty Ltd,
8 Jones Road,
Capalaba, Queensland, 4157.

Date of Approval of Variation: 8 September 1978

The modifications described in this Schedule apply to the pattern described in Technical Schedule No 4/5/12 dated 22 December 1977.

Condition of Approval:

There is not more than one measurement of less than 29 mL or greater than 31 mL in a sample of 10 measurements taken from a bottle which is approximately 75% full, and the mean of such 10 measurements is not less than 30 mL.

All instruments conforming to this approval shall be marked "NSC No 4/5/12".

Description:

The approved modifications provide for:

1. The measure of capacity 30 mL. The instrument is clearly and permanently marked "30 mL".
2. The internal electronic timing mechanism replaced by a mechanical interlock mechanism which ensures that a delivery once started cannot be stopped by the operator, and, a delivery having been made, a further delivery cannot be started until the measuring chamber has had sufficient time to refill.

Special Tests:

The instrument would be adequately tested if 10 deliveries are made from a bottle not less than three-quarters full at the beginning of the test and the resultant total delivery is not less than 300 mL.

If water is used for testing this measure and the measuring bowl fails to drain completely, it will be necessary to add approximately one part alcohol to three parts water to reduce the surface tension of the test liquid. Methylated spirits can be used as the source of alcohol.



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TECHNICAL SCHEDULE No 4/5/12

VARIATION No 2

Pattern: J.D. Liquor Dispenser Model EMU CHIC

Submitter: J.D. Engineering Services Pty Ltd,
8 Jones Road,
Capalaba, Queensland, 4157.

1. Description of Variant

1.1 Variant 3

With modified measuring chamber, in which the level of the liquor cannot be affected by a change in the length or placement of the bottle adaptor, and without the gauge lines on the sight glass and the notice advising that the liquid level must be between the gauge lines before a delivery is made (Figures 4 and 5).

The instrument may have electronic or mechanical timing system, and be of 15 mL or 30 mL capacity.

1.1.1 Sealing

The instrument has provision for a Weights and Measures seal to be affixed (Figure 6).



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VARIATION No 3

Pattern: J D Model EMU CHIC Liquor Dispenser

Submittor: J D Engineering Services Pty Ltd
8 Jones Road
Capalaba, Queensland, 4157.

1. Description of Variant 4

With an increased reservoir capacity to improve performance with temperature changes.



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VARIATION No 4

Pattern: J D Model EMU CHIC Liquor Dispenser

Submittor: J D Engineering Services Pty Ltd
8 Jones Road
Capalaba, Queensland, 4157.

1. Description of Variant 5

Mechanically operated, 15 ml capacity version with an increased reservoir as described for Variant 4. No electrical connections are required for this dispenser to operate.

14/10/83



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 4/5/12

CHANGE No 1

The approval of the

J. D. Liquor Dispenser Model EMU CHIC

given in Certificate of Approval No 4/5/12 and Variation No 1
is altered by adding:

The approval will expire on 1 June 1981.

Signed

Executive Director

Note: The date of review has been extended to allow the
submitter to modify the pattern as requested by the
Commission.

17/12/80



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 4/5/12

CHANGE No 2

The following changes are made to the approval documentation for the

JD Model EMU CHIC Liquor Dispenser

submitted by J D Engineering Services Pty Ltd
8 Jones Road
CAPALABA QLD 4157.

1. In Certificate of Approval No 4/5/12 dated 14/10/83, the description of variant 5 should be amended to read:

"... of 15 ml or 30 ml capacity."

2. In Technical Schedule No 4/5/12 Variation No 4 dated 14/10/83, the description of variant 5 should be amended to read:

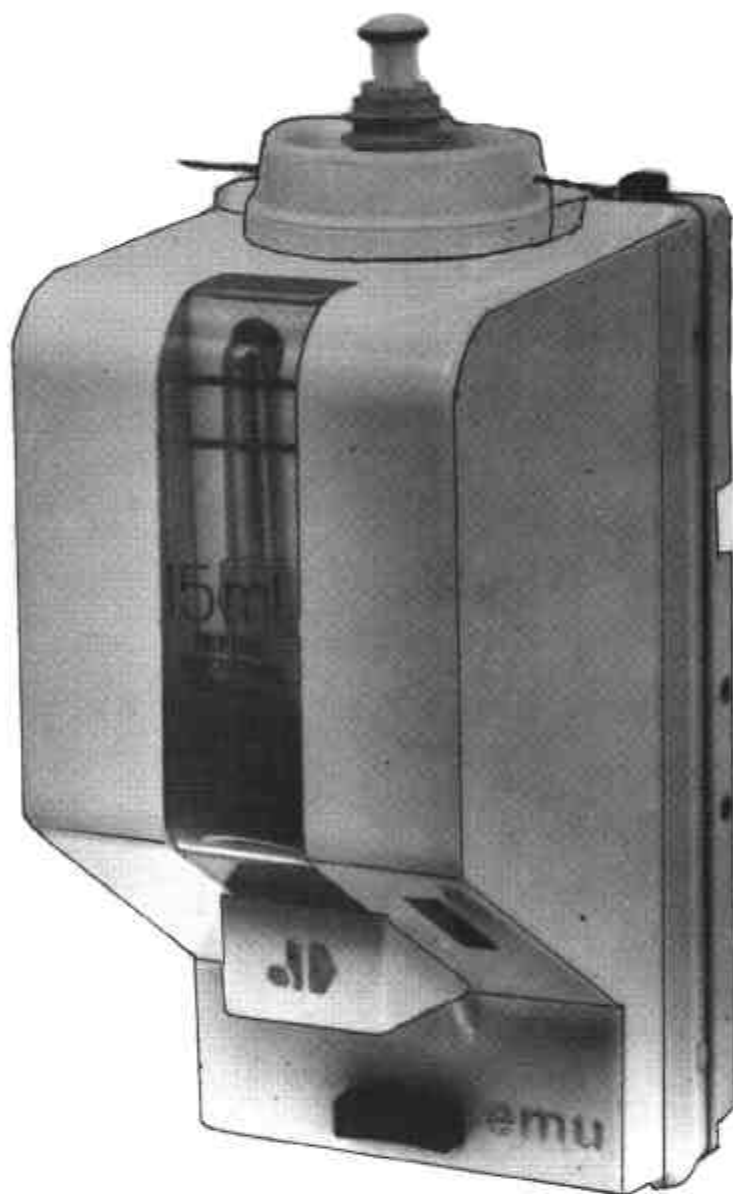
" ... 15 ml or 30 ml versions ..."

Signed

Executive Director

23/12/83

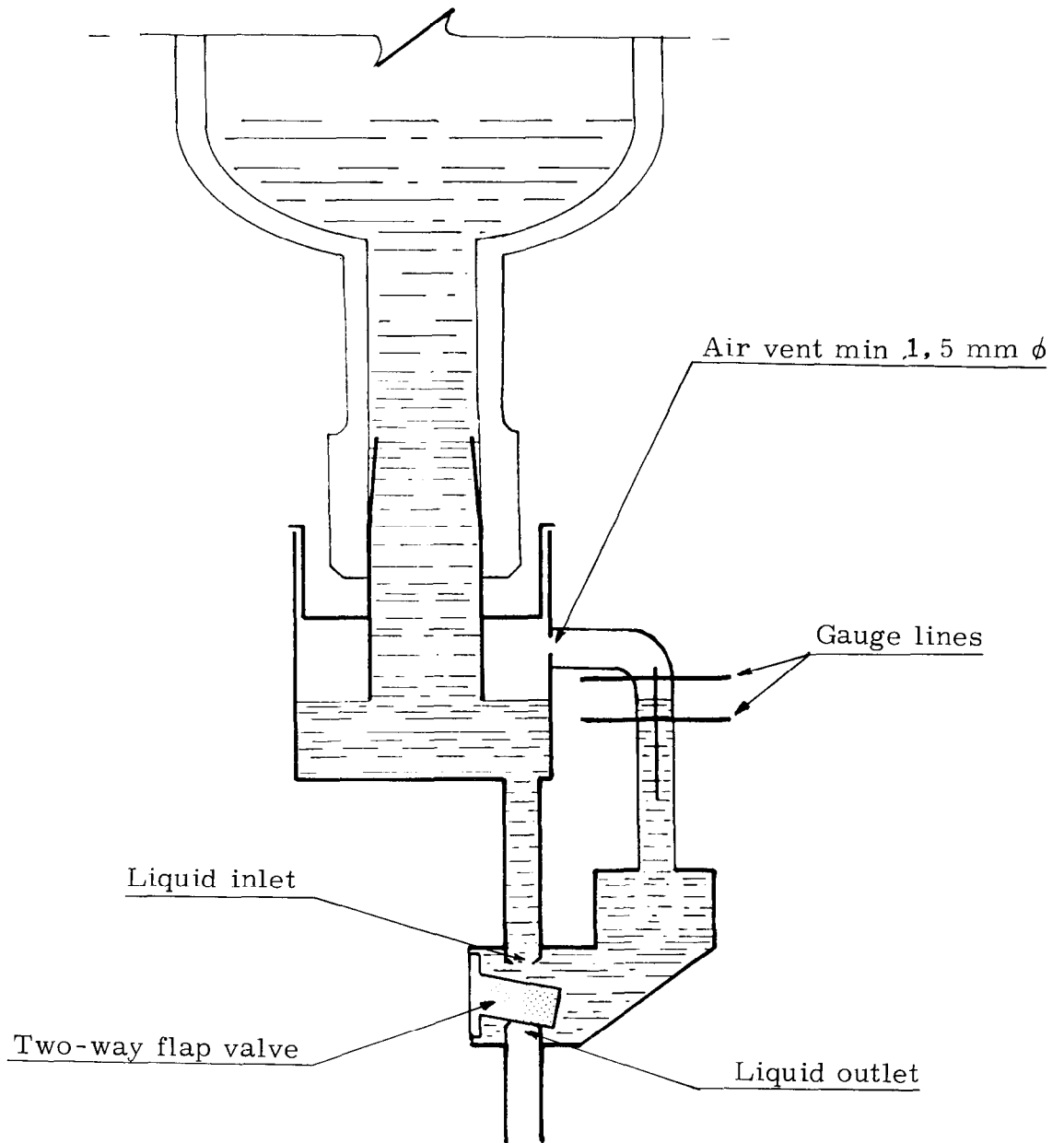
FIGURE 4/5/12 - 1



EMU CHIC Liquor Dispenser

22/12/77

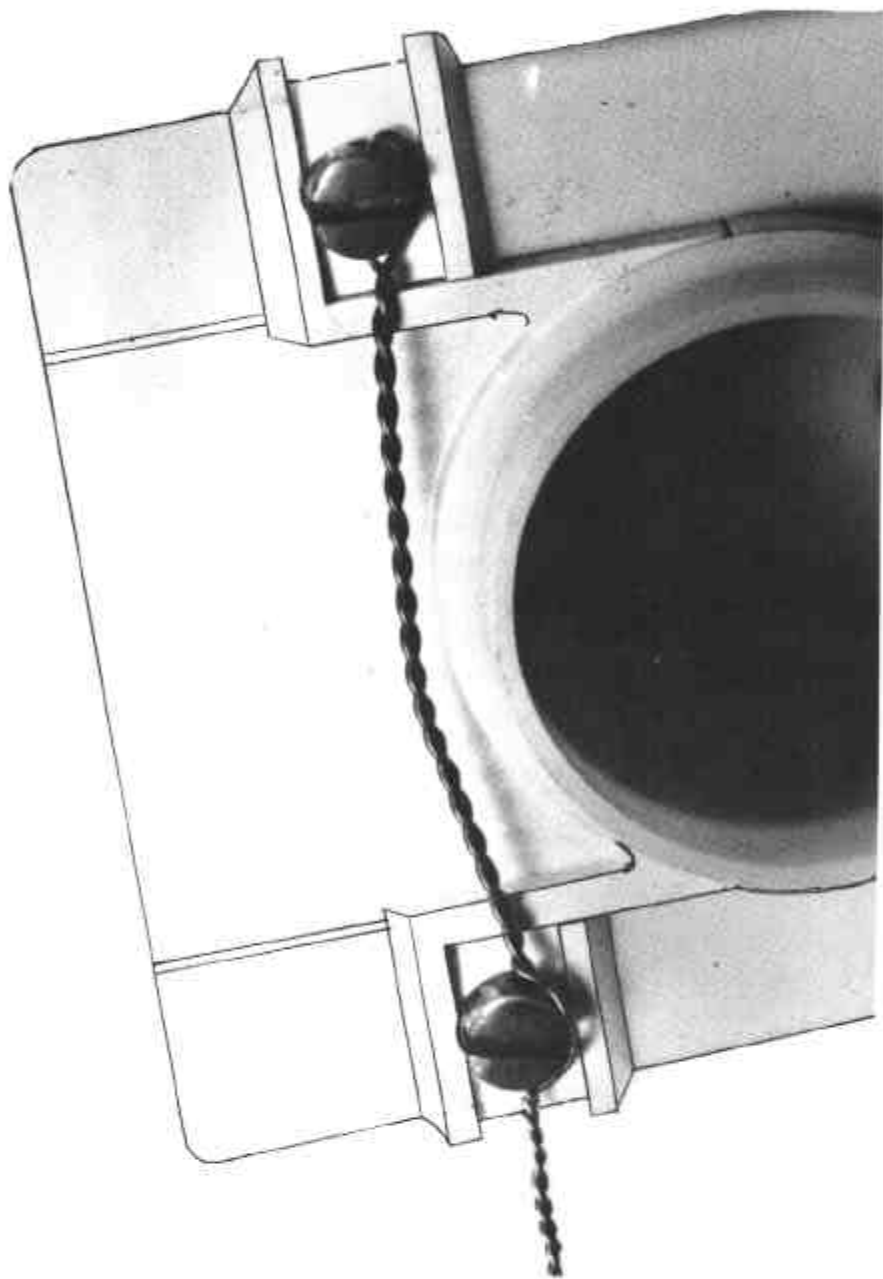
FIGURE 4/5/12 - 2



EMU CHIC — Schematic Diagram

22/12/77

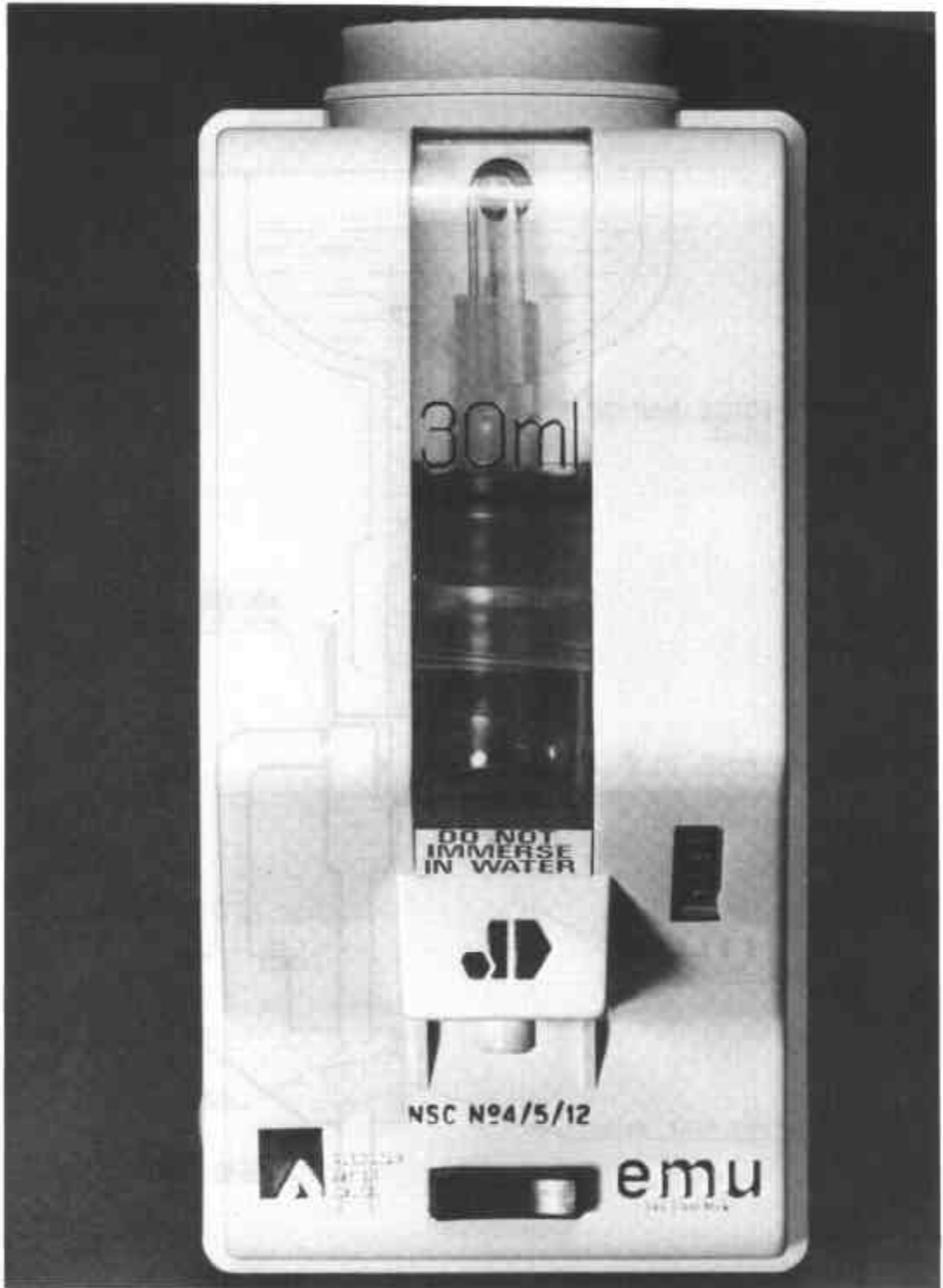
FIGURE 4/5/12 - 3



Provision for Sealing

22/12/77

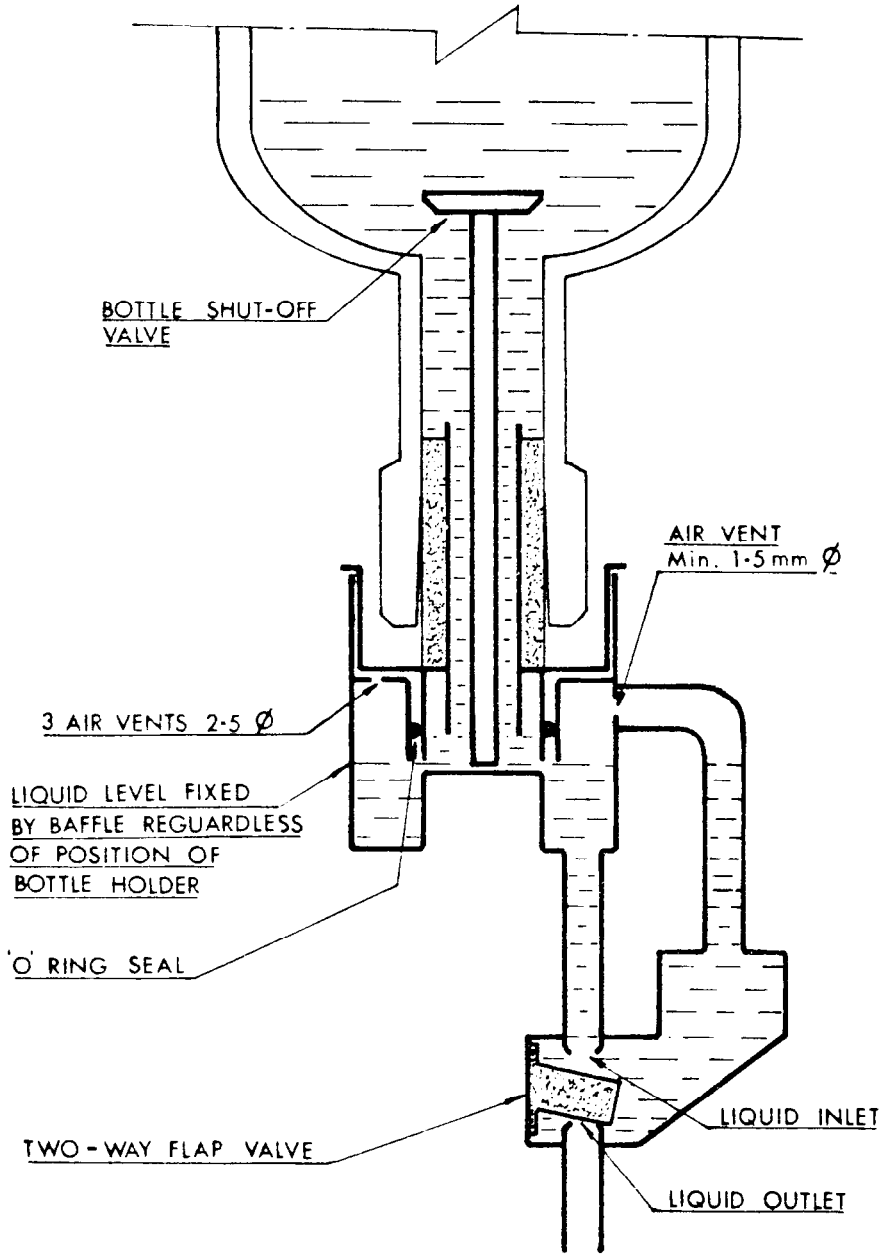
FIGURE 4/5/12 - 4



EMU CHIC Liquor Dispenser

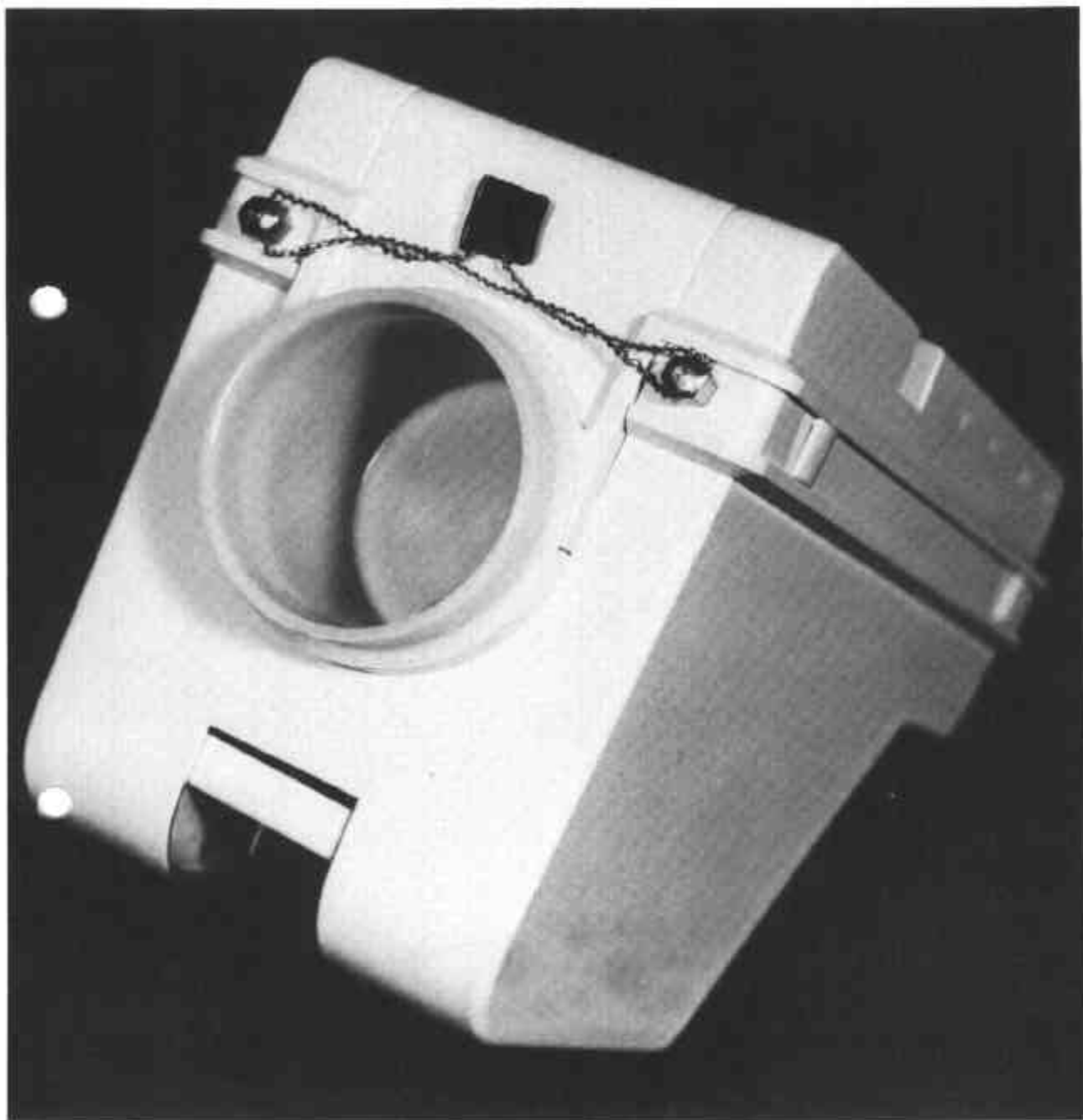
29/6/81

FIGURE 4/5/12 - 5



EMU CHIC - Schematic Diagram

FIGURE 4/5/12 - 6



EMU CHIC Showing Sealing

29/6/81