

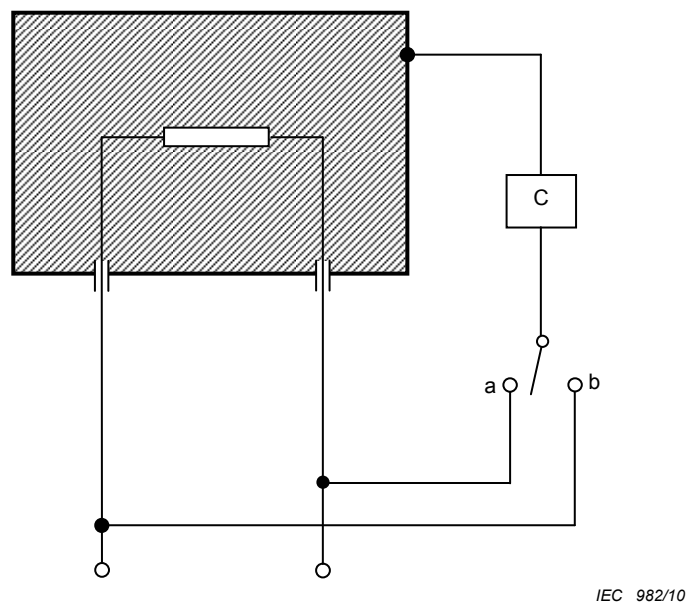
IEC 981/10

**Key**

C circuit of Figure 4 of IEC 60990

1 **accessible part**2 **inaccessible metal part**3 **basic insulation**4 **supplementary insulation**5 **double insulation**6 **reinforced insulation**

**Figure 1 –  $\square A_1$  Circuit diagram for leakage current measurement at operating temperature for single-phase connection of class II appliances and for parts of class II construction  $\square A_1$**

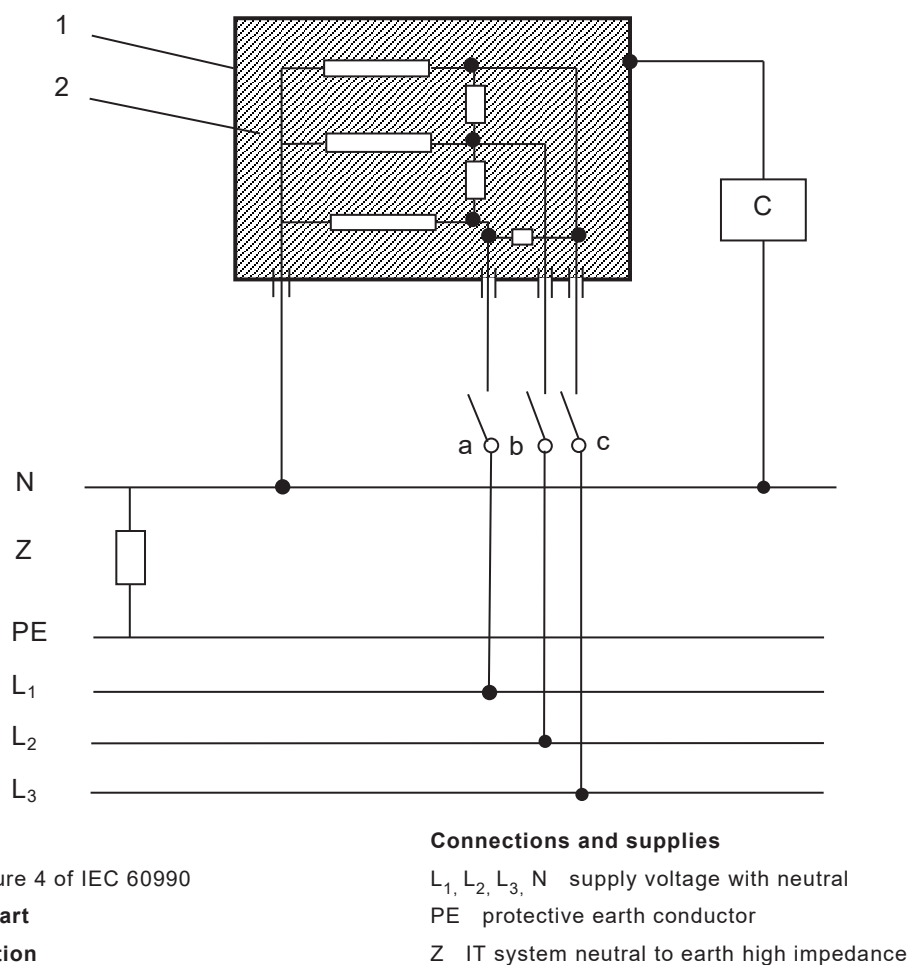
**Key**

C circuit of Figure 4 of IEC 60990

NOTE  $\text{A}_1$  For **class 0I appliances** and **class I appliances**, C can be replaced by a low impedance ammeter responding to the **rated frequency** of the appliance.  $\text{A}_1$

**Figure 2 –  $\text{A}_1$  Circuit diagram for leakage current measurement at operating temperature for single-phase connection of other than class II appliances or parts of class II construction  $\text{A}_1$**



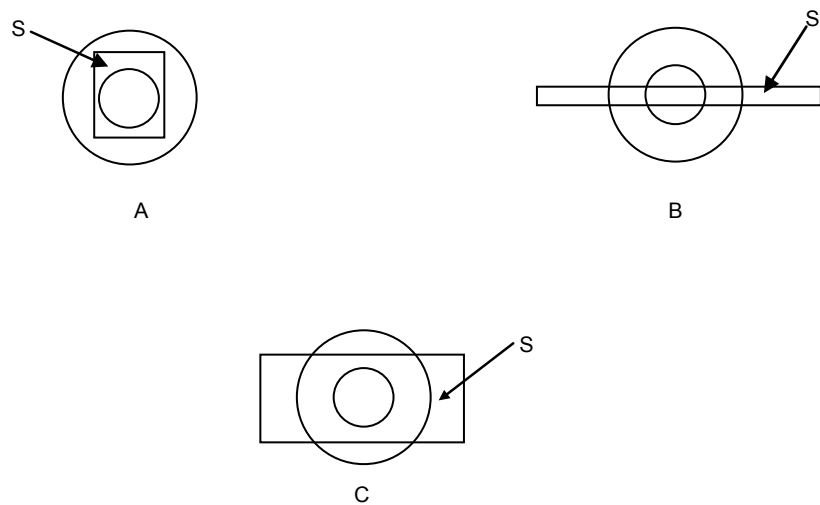


NOTE 1 For **class 0I appliances** and **class I appliances**, C can be replaced by a low impedance ammeter responding to the **rated frequency** of the appliance.

NOTE 2 If the test laboratory is supplied from a TN or TT distribution system then Z will be zero. Consequently, always connecting "C" to the neutral conductor will ensure reproducibility of the test result regardless of the type of distribution system (TN, TT or IT) used by the test laboratory and will cover the most onerous condition likely to be encountered during normal use of the appliance.

**Figure 4 – Circuit diagram for leakage current measurement at operating temperature for three-phase with neutral appliances other than those of class II or parts of class II construction**

A1



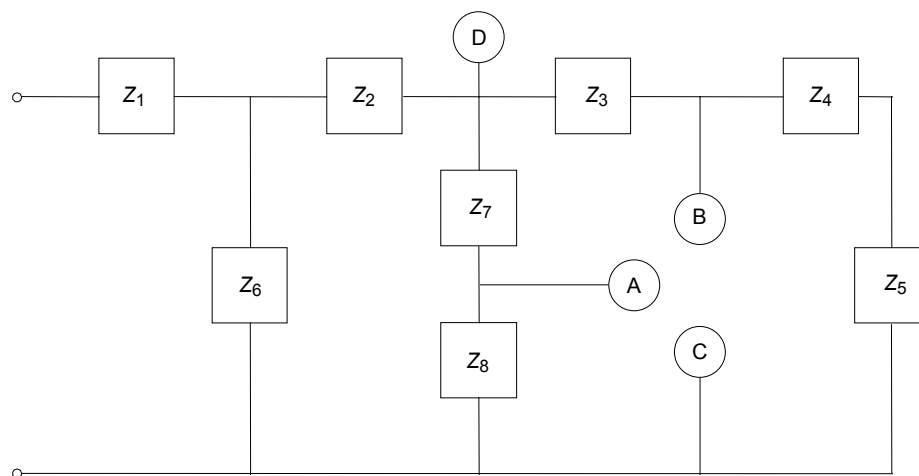
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**Key**A example of a **small part**B example of a **small part**C example of a part that is not a **small part**

S surface

NOTE The small and large circles in examples A, B and C are 8 mm and 15 mm in diameter respectively.

**Figure 5 – Small part**



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D is a point farthest from the supply source where the maximum power delivered to external load exceeds 15 W.

A and B are points closest to the supply source where the maximum power delivered to external load does not exceed 15 W. These are low-power points.

Points A and B are separately short-circuited to C.

The fault conditions a) to g) specified in 19.11.2 are applied individually to  $Z_1$ ,  $Z_2$ ,  $Z_3$ ,  $Z_6$  and  $Z_7$ , where applicable.

**Figure 6 – Example of an electronic circuit with low-power points**

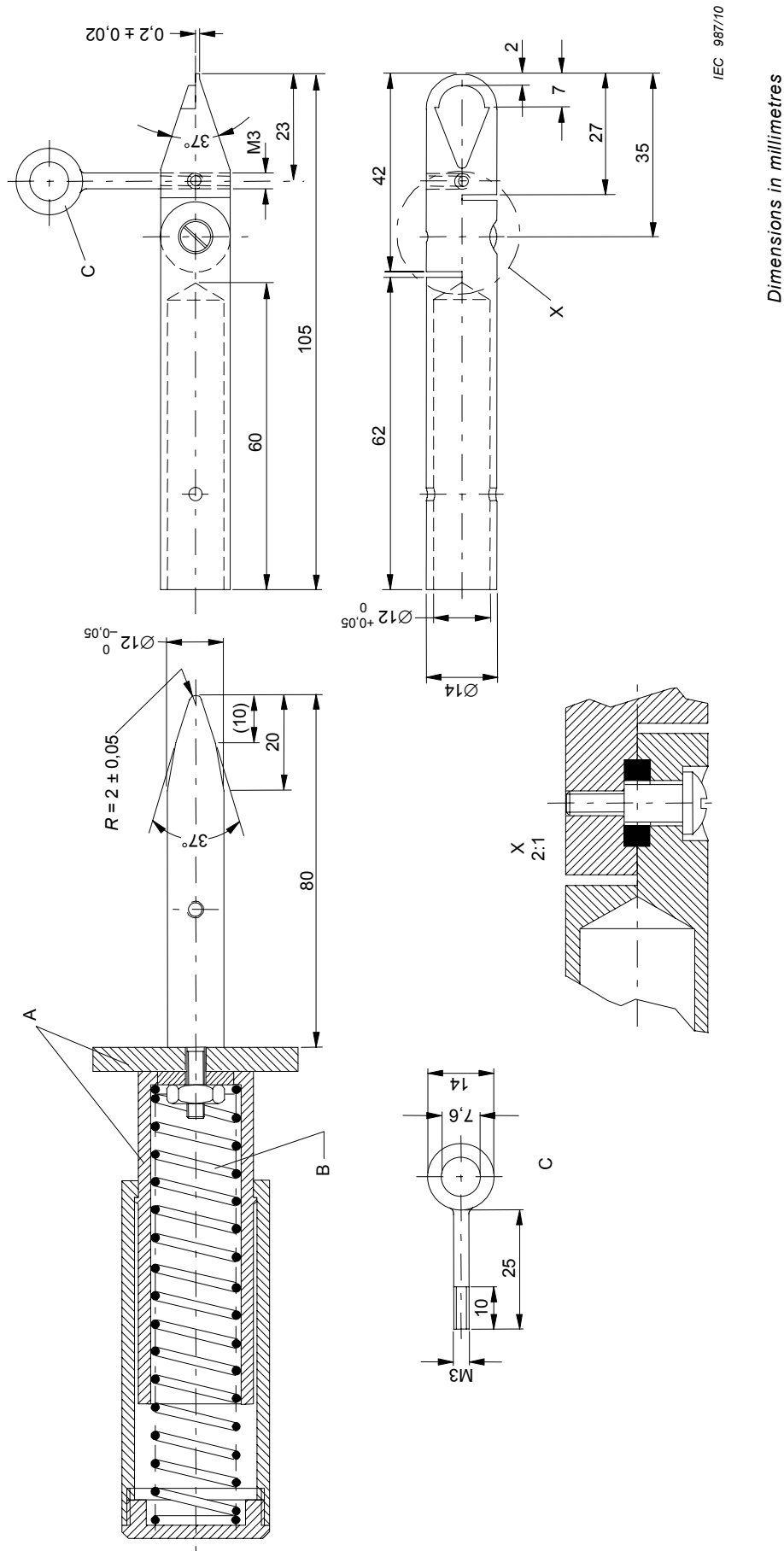
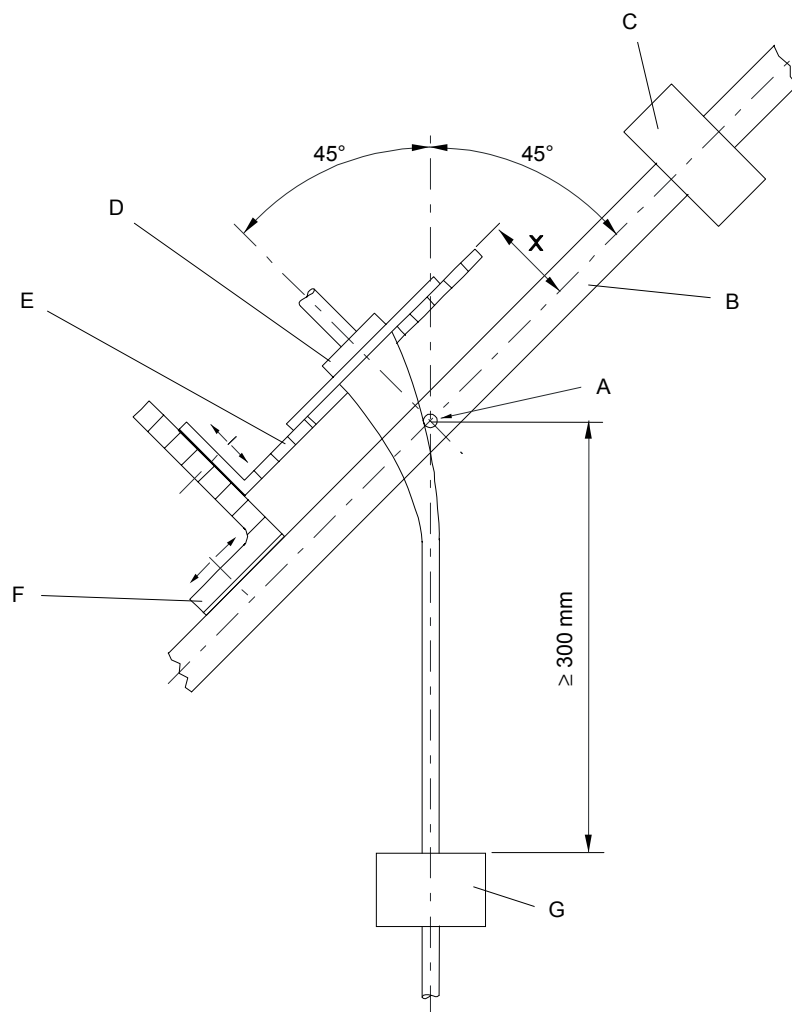


Figure 7 – Test finger nail



IEC 988/10

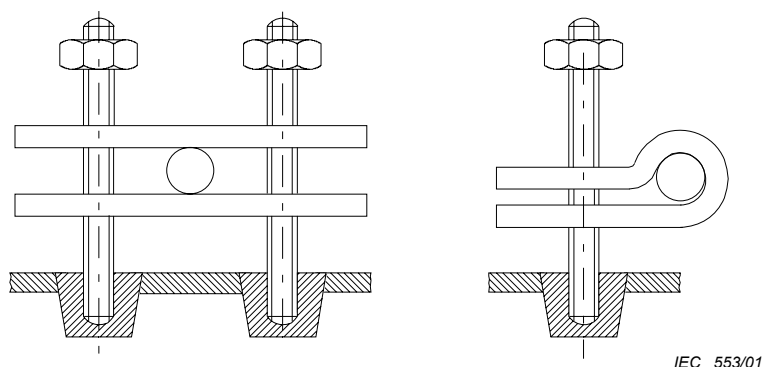
**Key**

- A axis of oscillation
- B oscillating frame
- C counterweight
- D sample
- E adjustable carrier plate
- F adjustable bracket
- G load

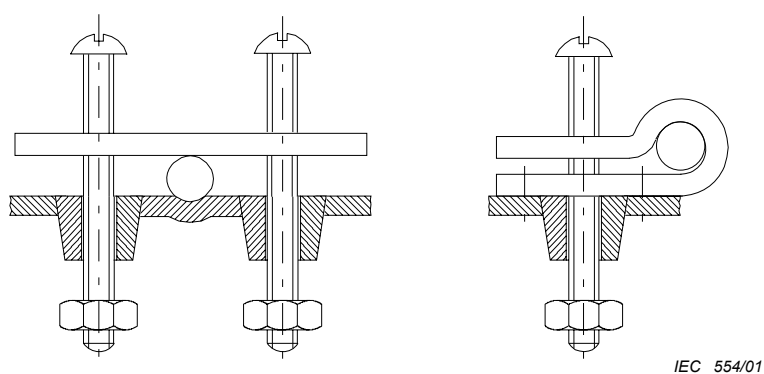
**Figure 8 – Flexing test apparatus**



## ACCEPTABLE CONSTRUCTIONS



Construction showing studs securely attached to the appliance

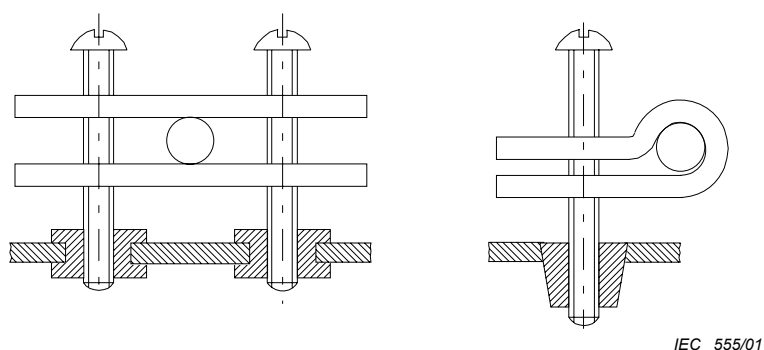


Construction showing part of appliance of insulating material and so shaped that it obviously forms part of a cord clamp.

Construction showing one of the clamping members is fixed to the appliance

NOTE Clamping screws may screw into threaded holes in the appliance or pass through holes where they are secured by nuts.

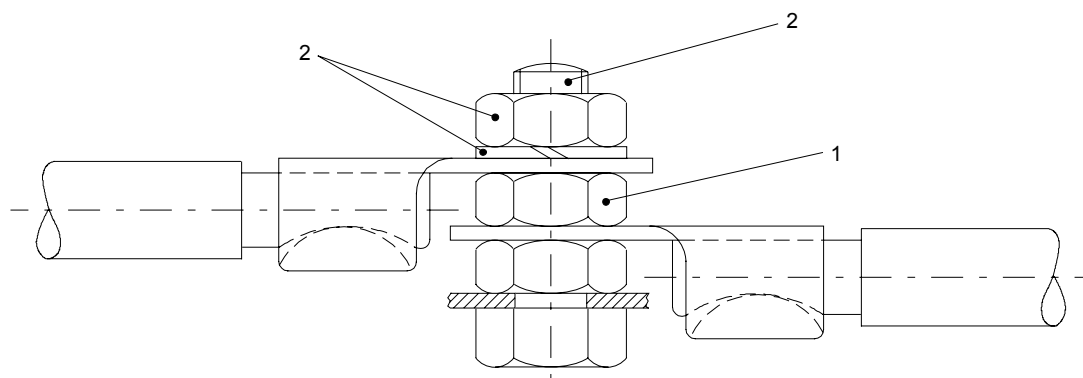
## UNACCEPTABLE CONSTRUCTIONS



Construction showing no part securely fixed to the appliance

NOTE Clamping screws may screw into threaded holes in the appliance or pass through holes where they are secured by nuts.

**Figure 9 – Constructions of cord anchorages**



IEC 556/01

**Key**

- 1 part providing earthing continuity
- 2 part providing or transmitting contact pressure

**Figure 10 – An example of parts of an earthing terminal**