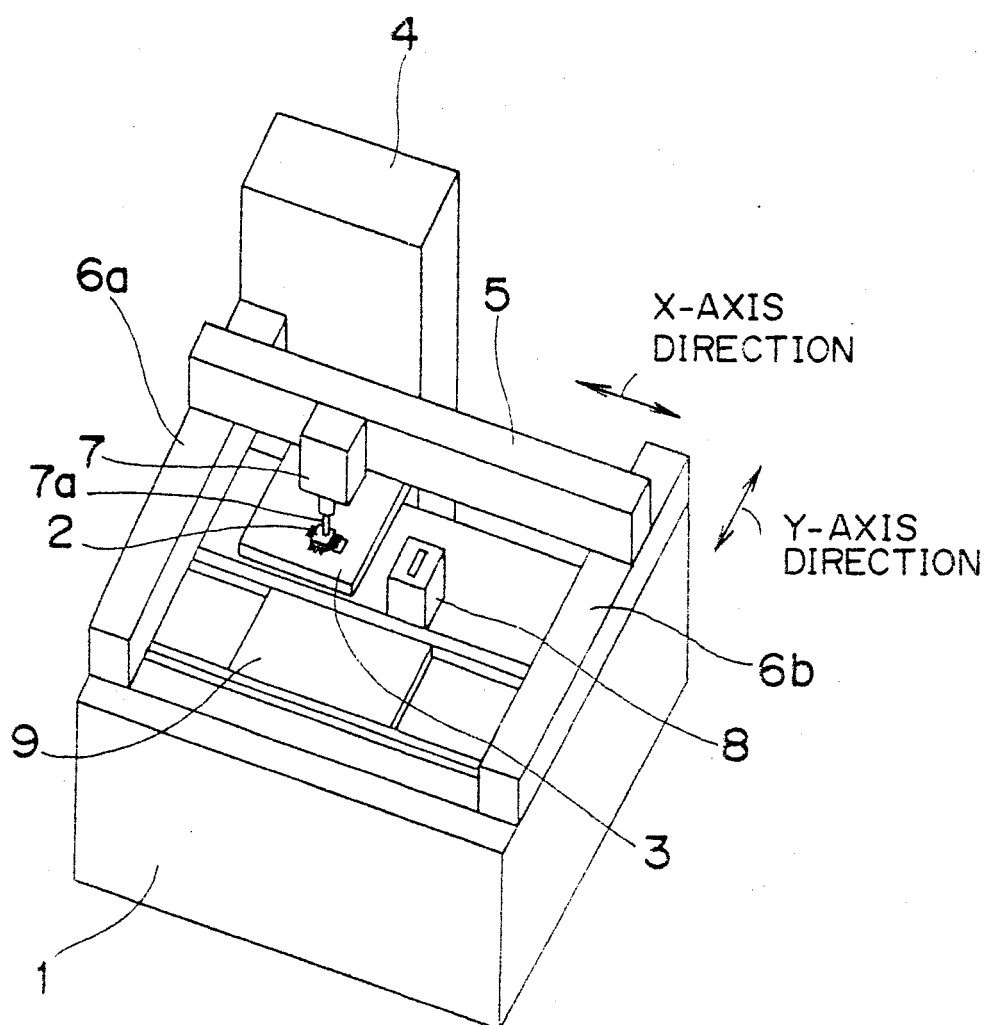


*Fig. 1*



The diagram illustrates a scanning electron microscope (SEM) system. At the top, a specimen stage (5) holds a specimen (2). A vertical column (7) with a magnifying glass (7m) is positioned above the specimen. A detector (2a) is located at the base of the column. A dashed line (2c) indicates the electron beam path. The beam passes through a series of lenses (11, 12, 15) and is focused on the specimen. The resulting signal is detected by a detector (16a) and a secondary detector (16b). The system is housed in a vacuum chamber (8) with a viewing window (17a, 17b). The chamber is supported by a base (10) and has a side panel (18a, 18b). An X-axis arrow is shown to the right.

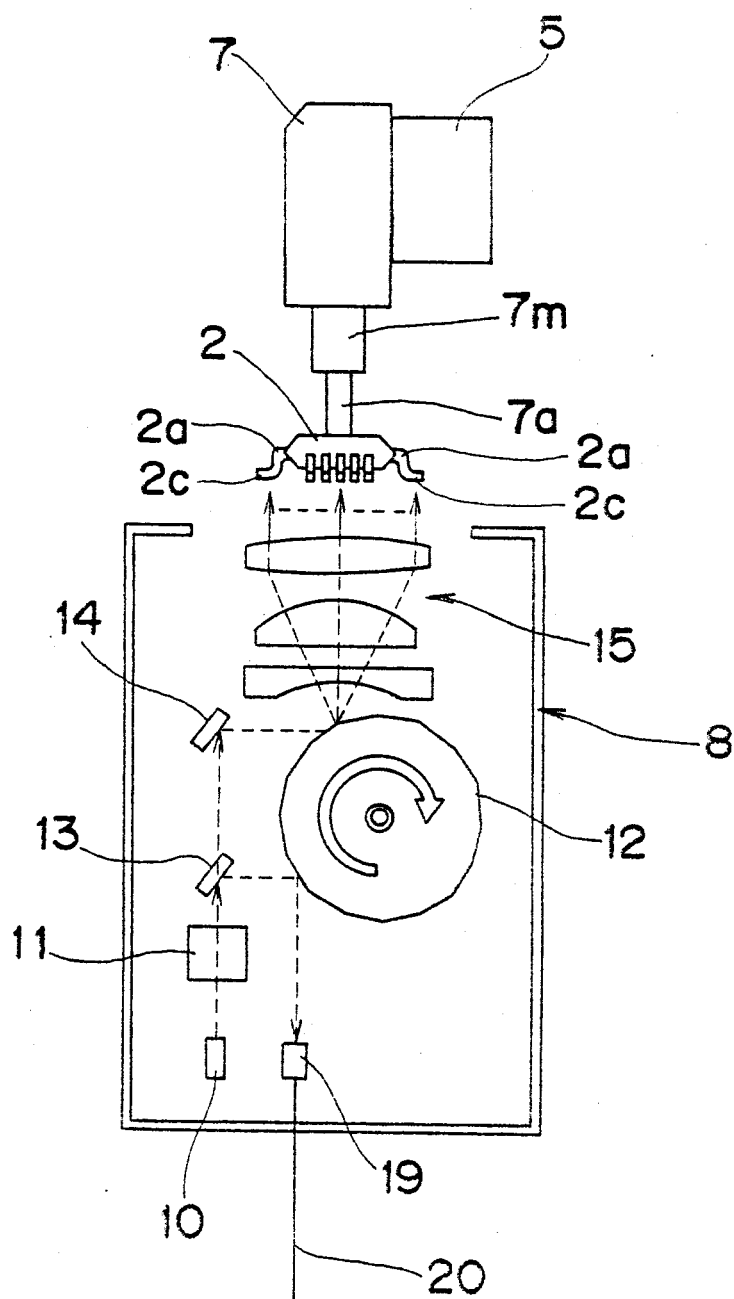
*Fig. 3*

Fig.4

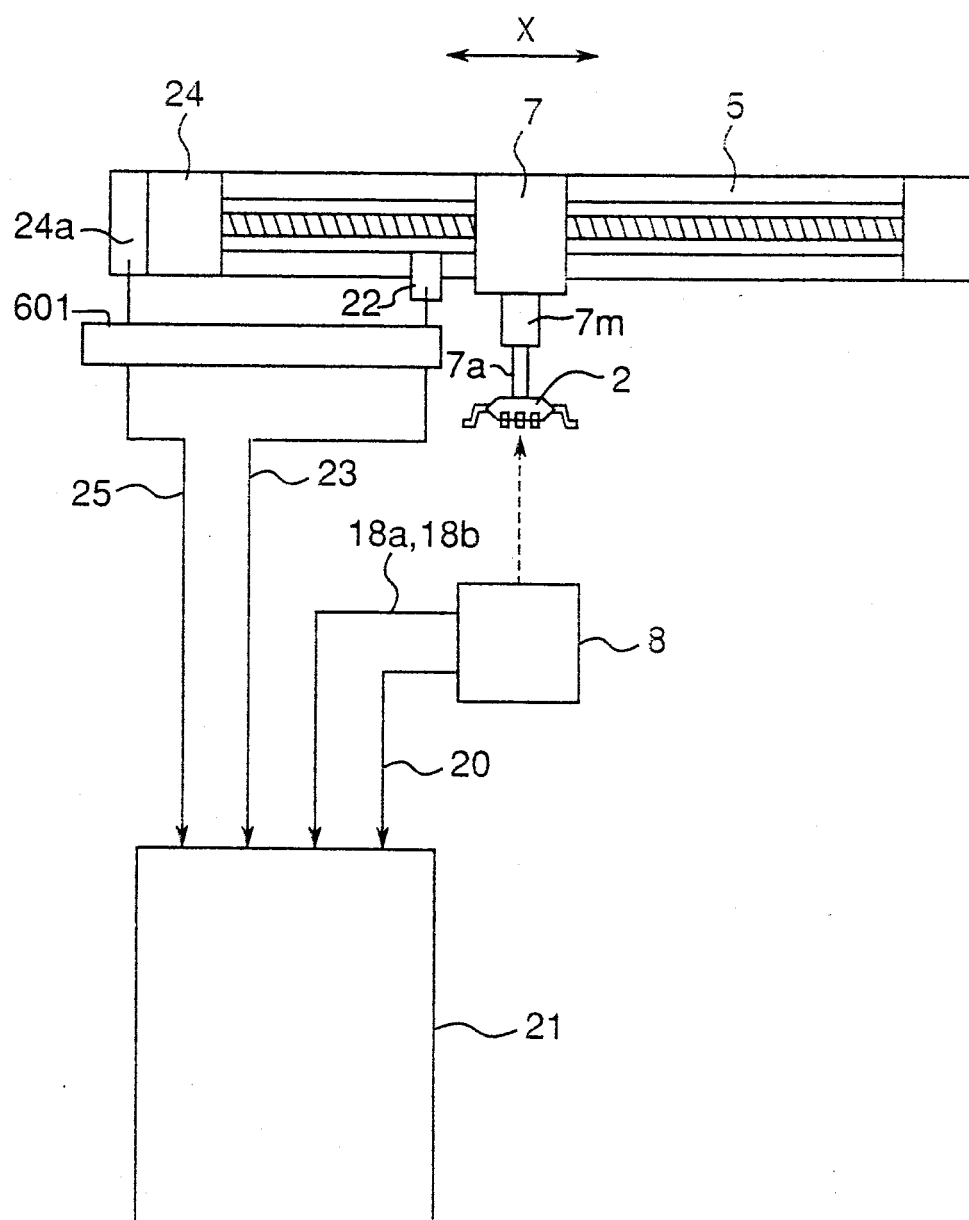


Fig. 5

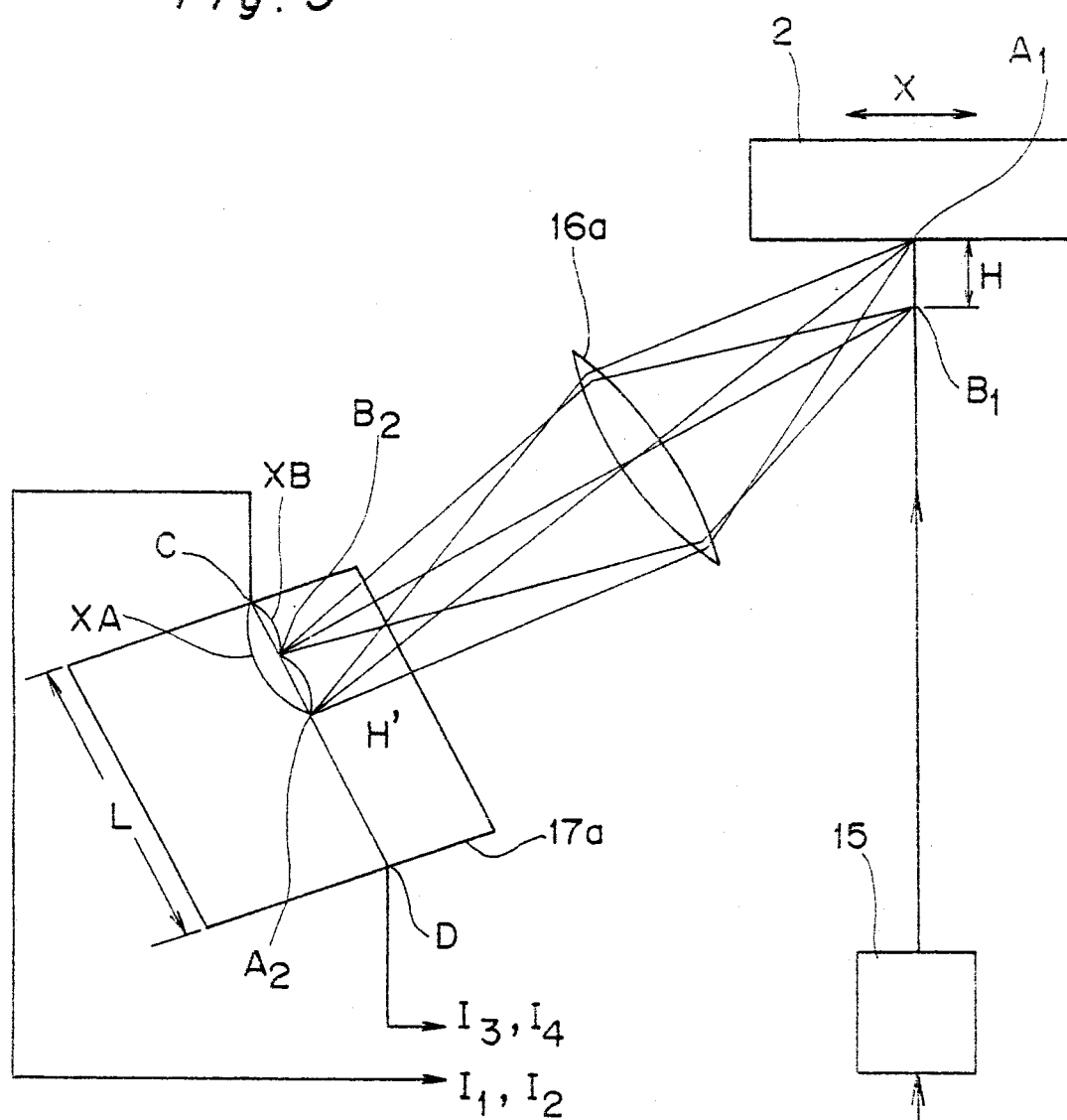


Fig. 6

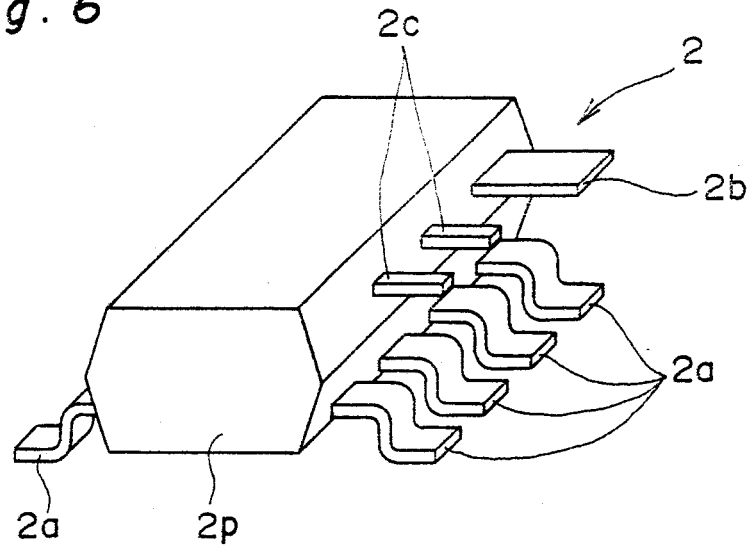


Fig. 7

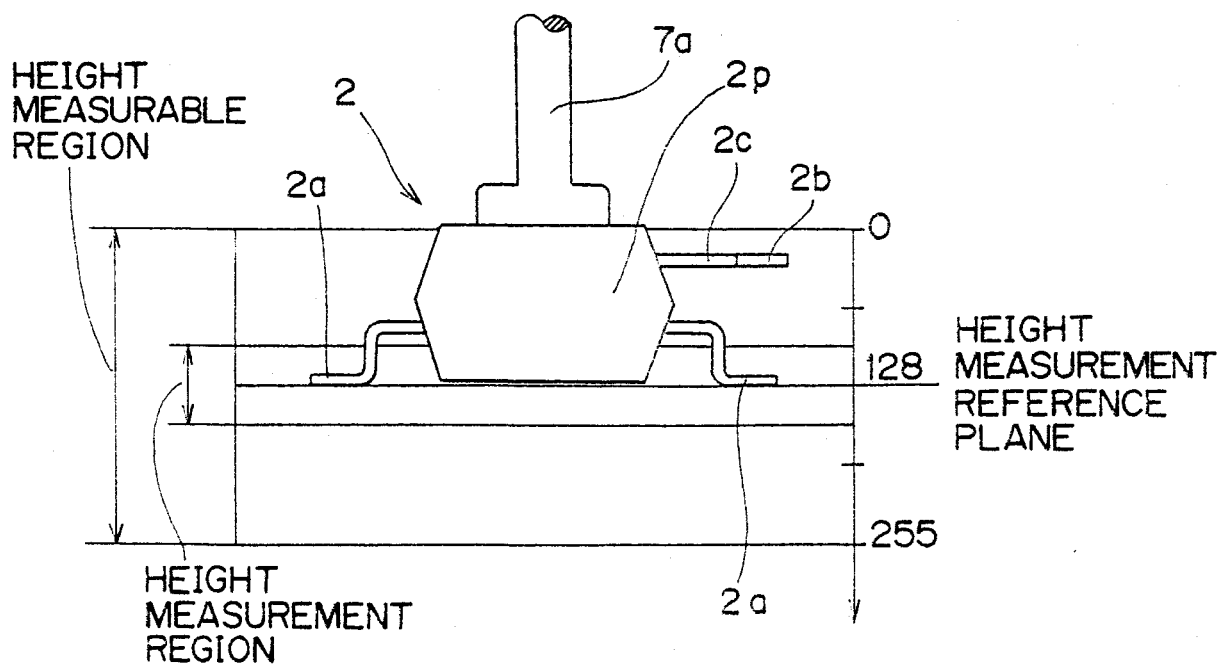


*Fig. 8A*

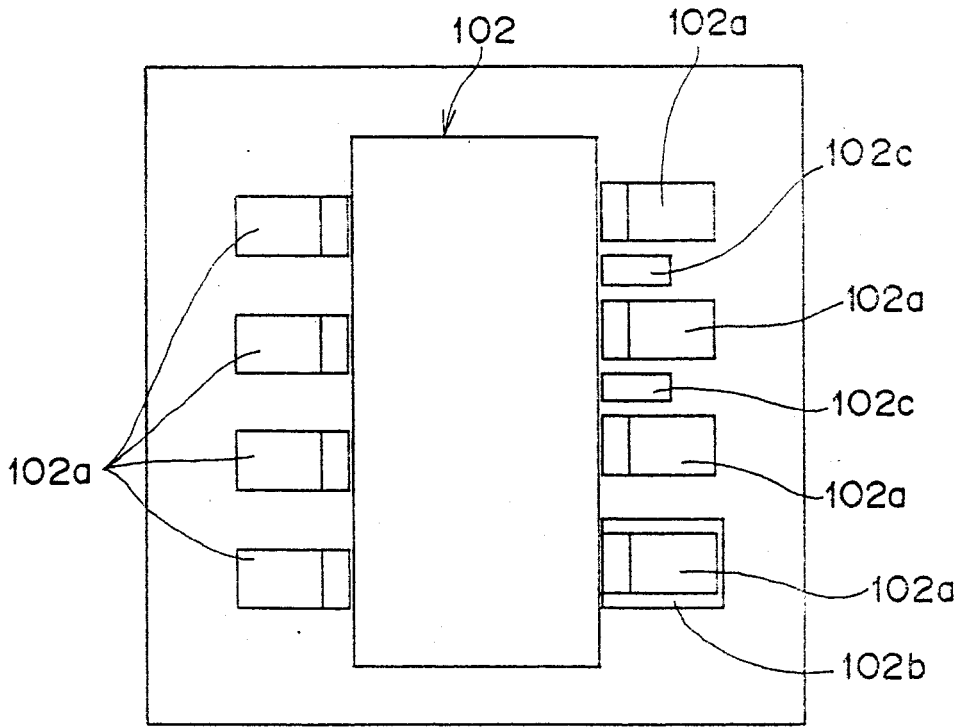


*Fig. 8B*

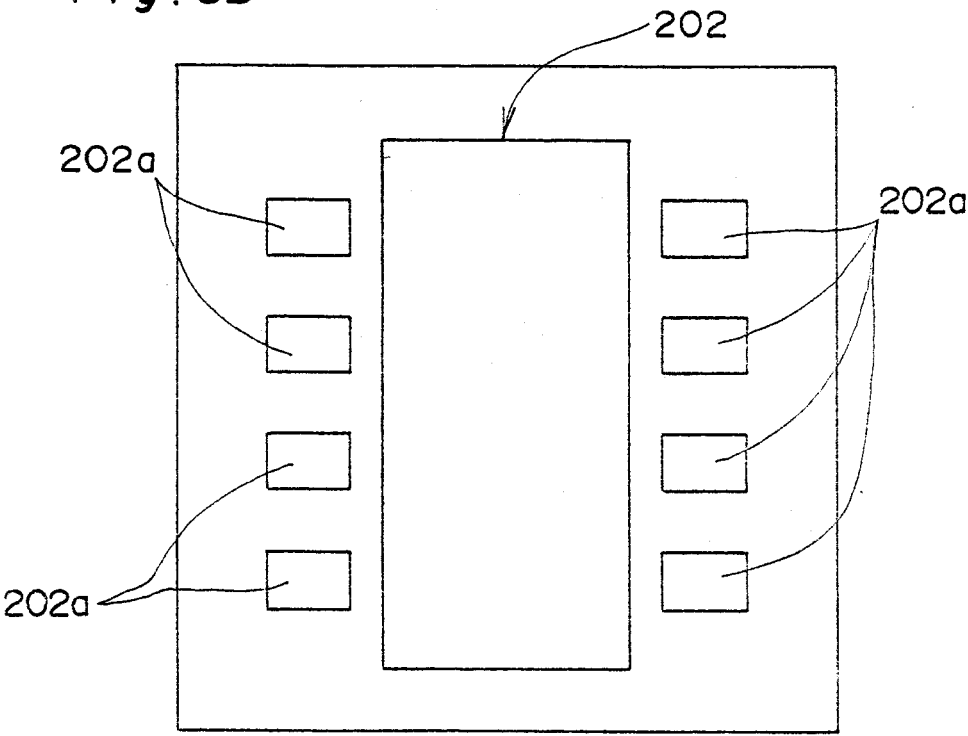


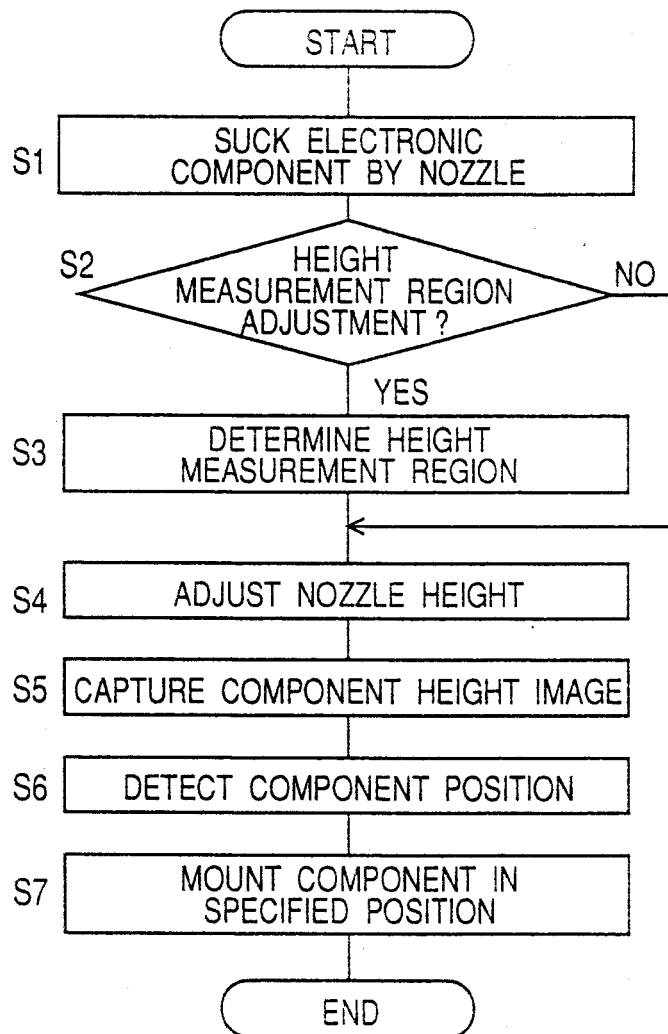
*Fig.9*

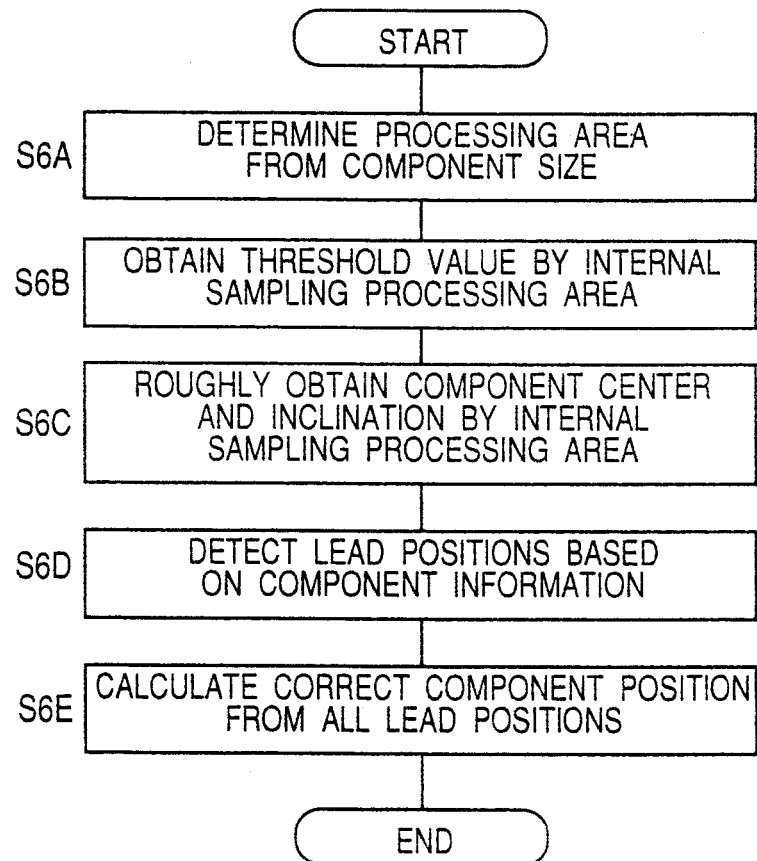
*Fig.10*

*Fig. 11A*

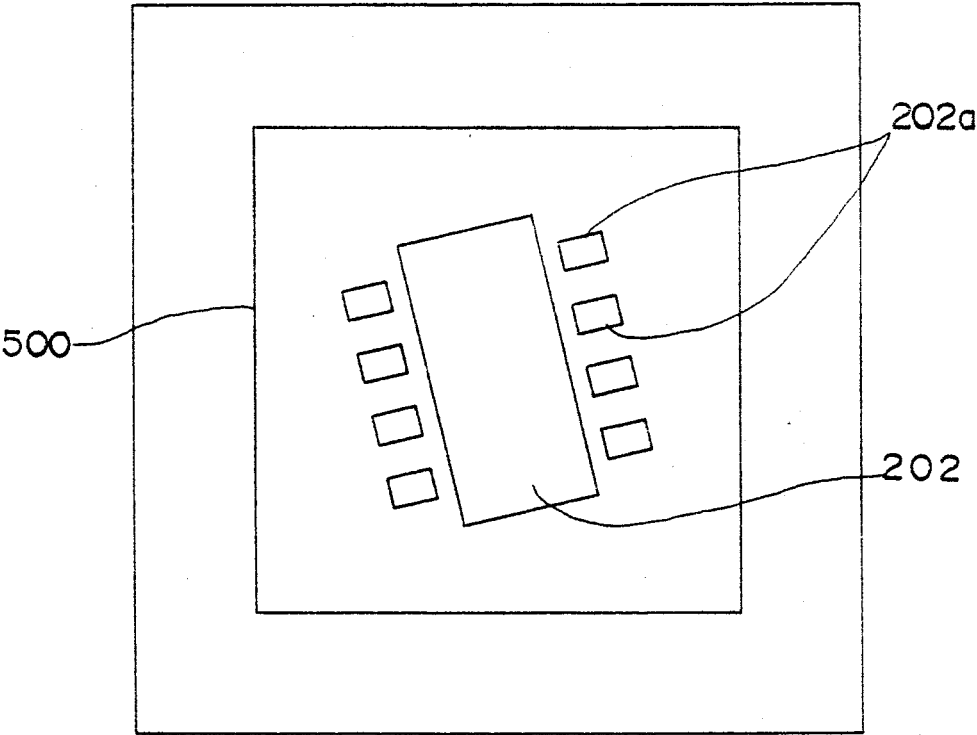


*Fig. 11B*

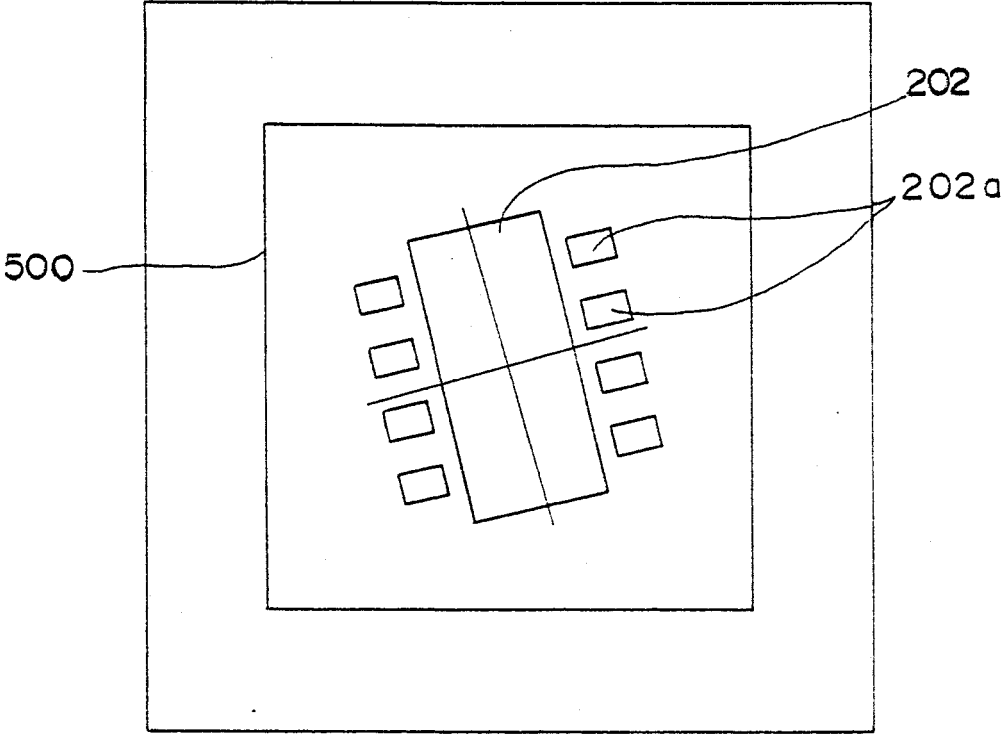


Fig. 12A

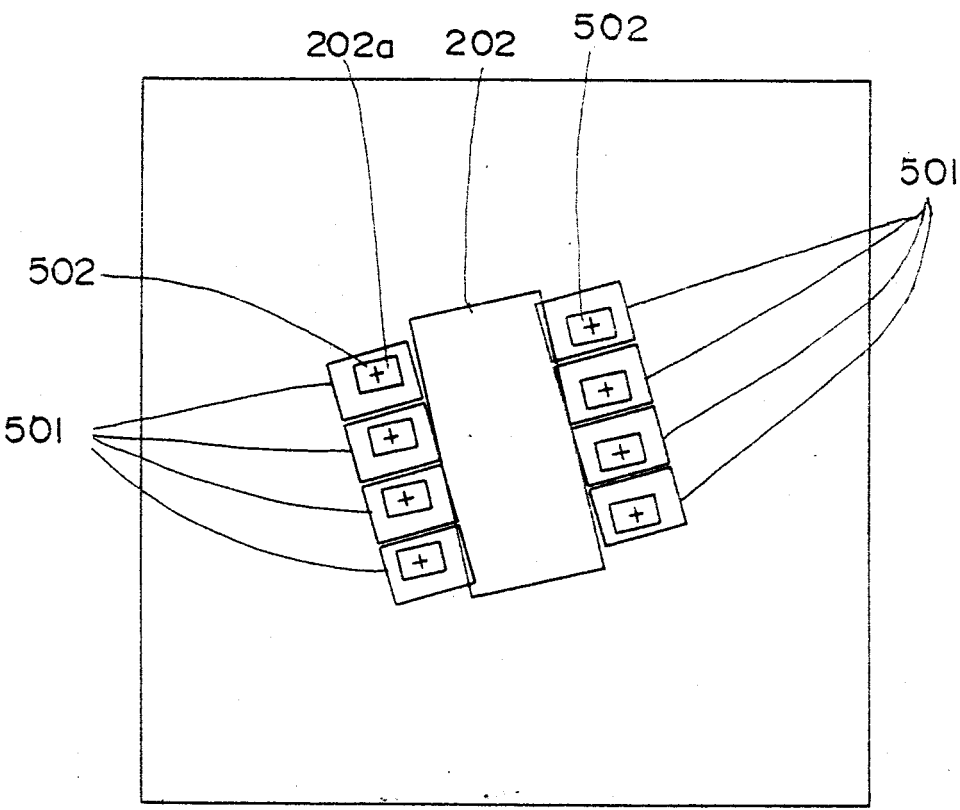


Fig. 12B

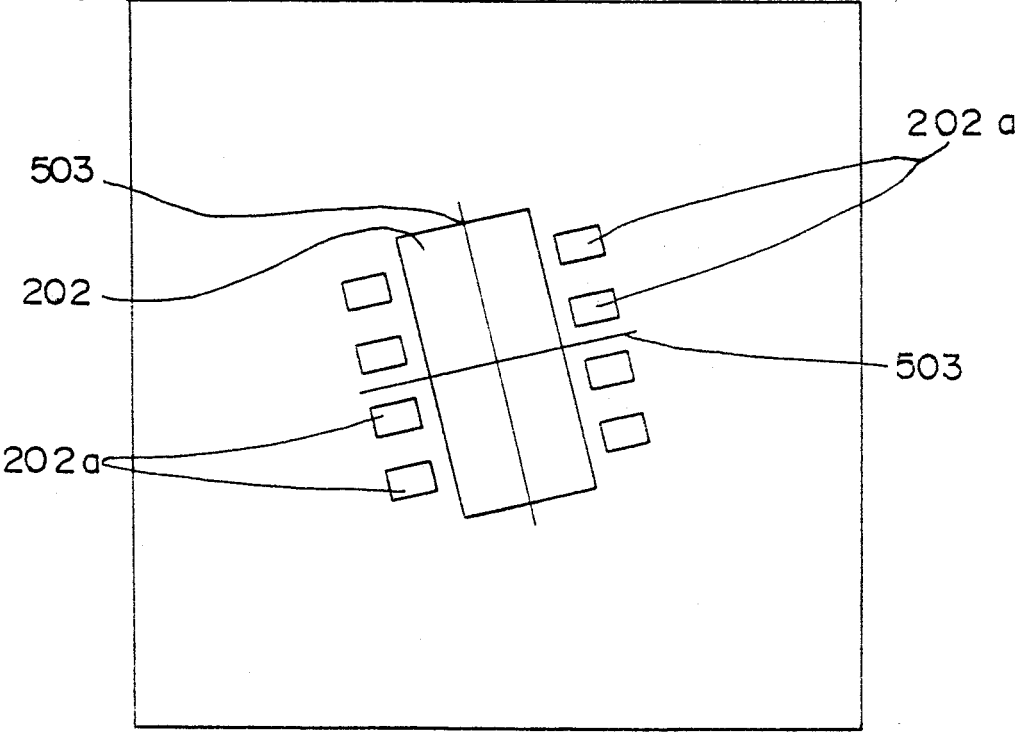


*Fig. 13*

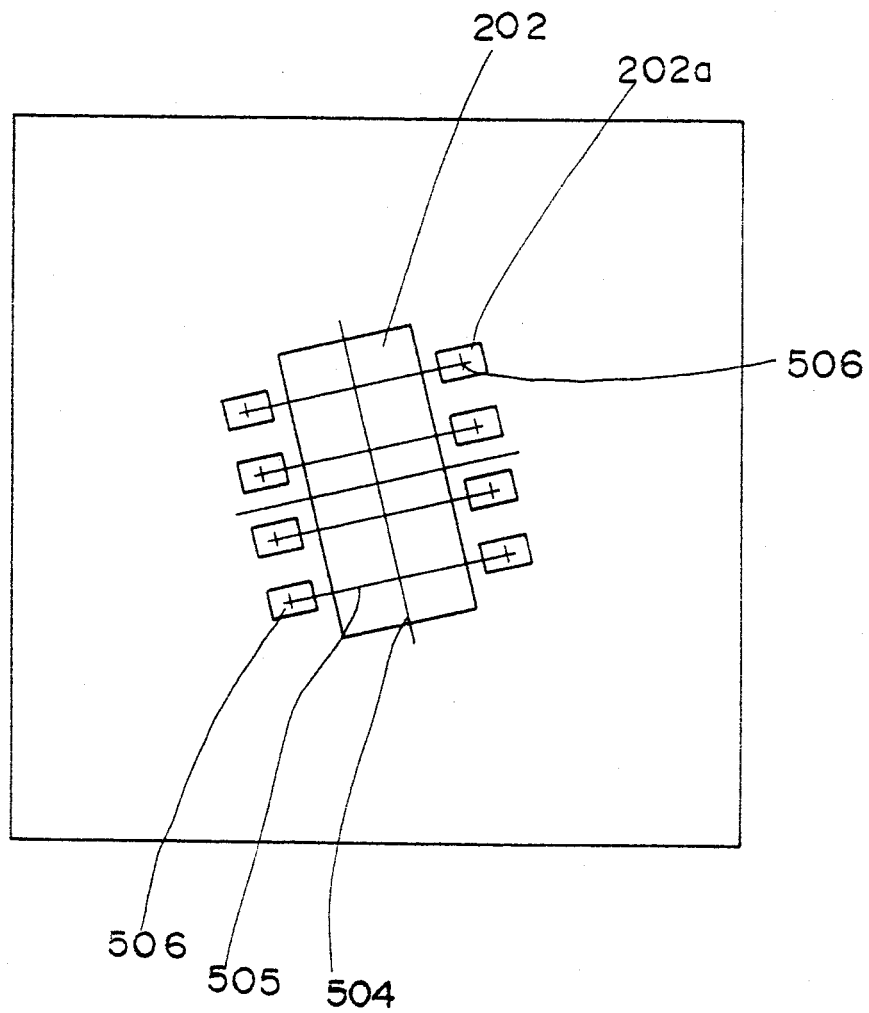


Fig. 14

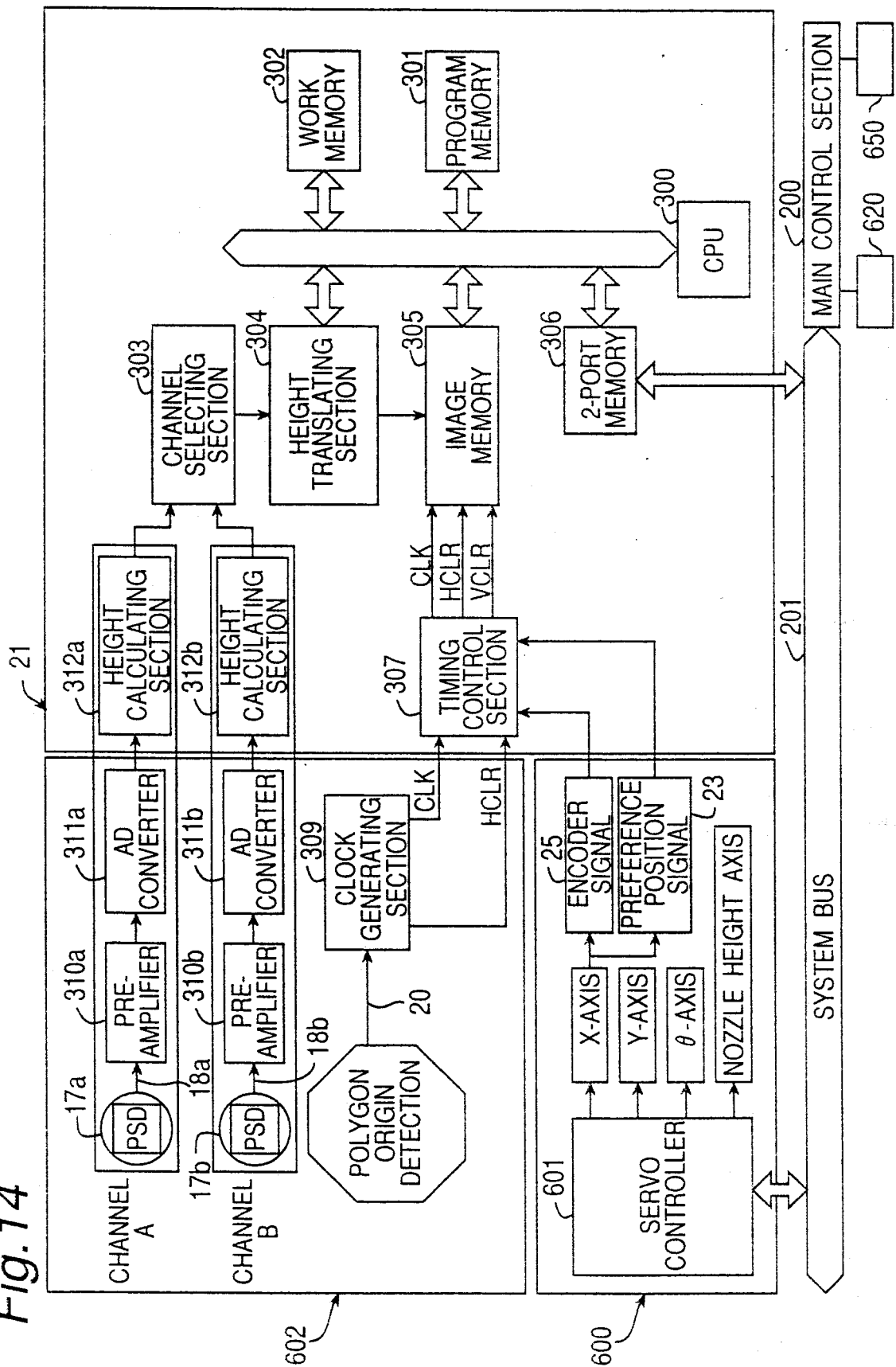


Fig. 15

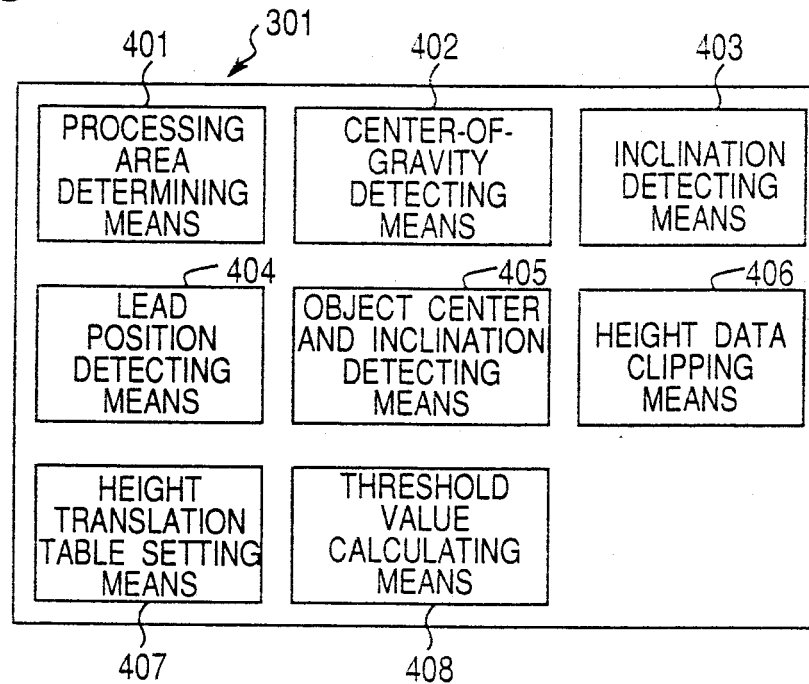


Fig. 16

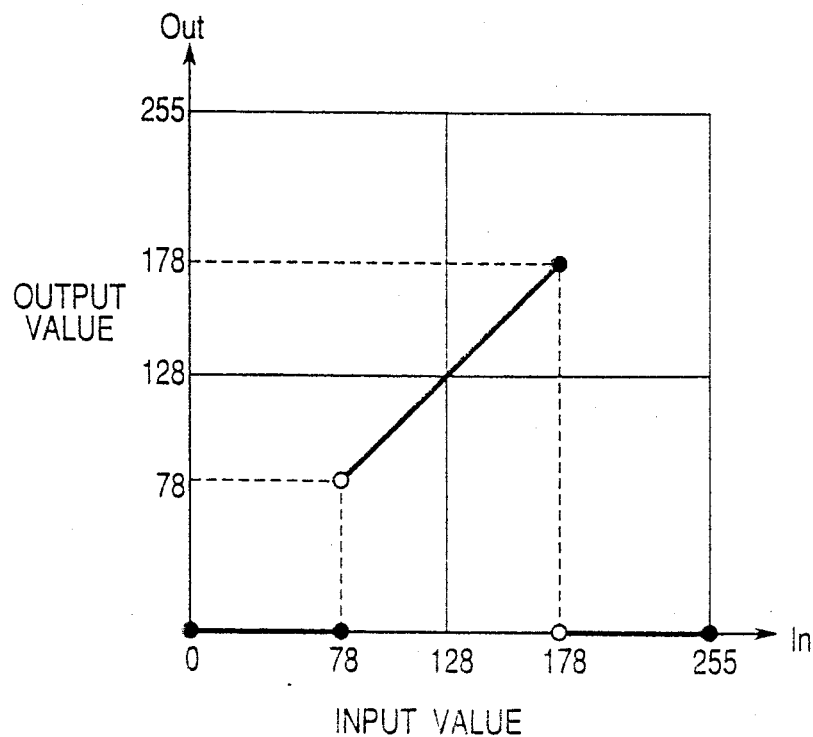


*Fig.17*

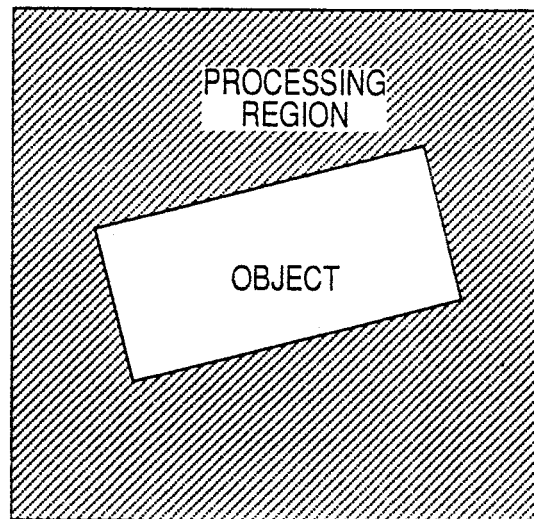


*Fig.18*

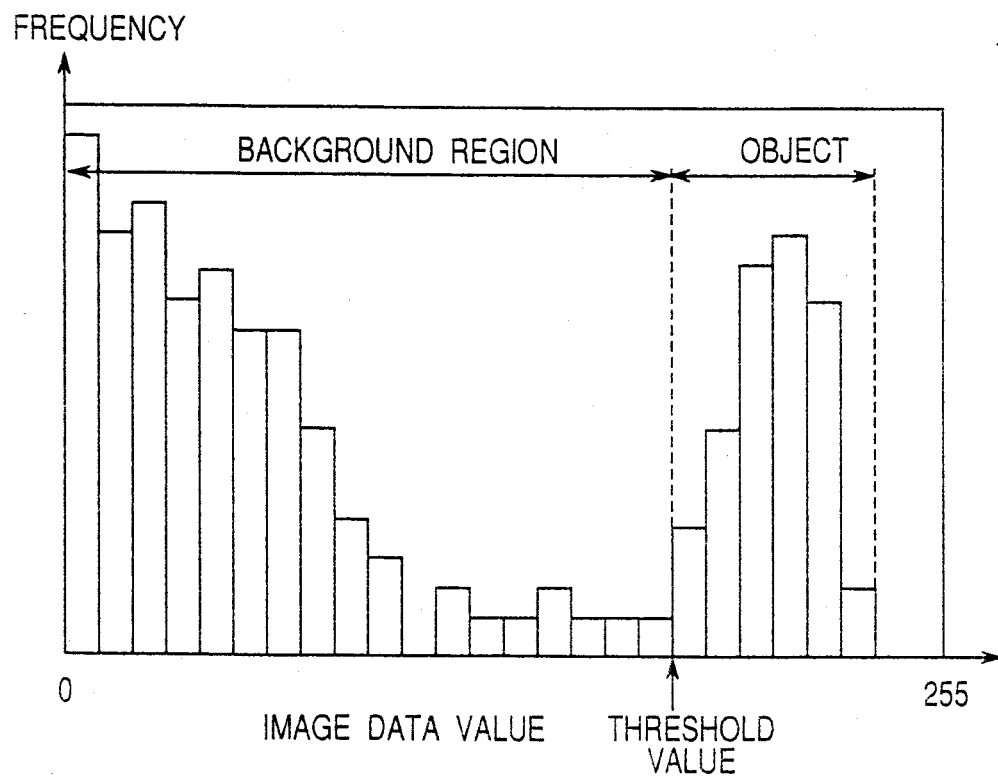


Fig. 19

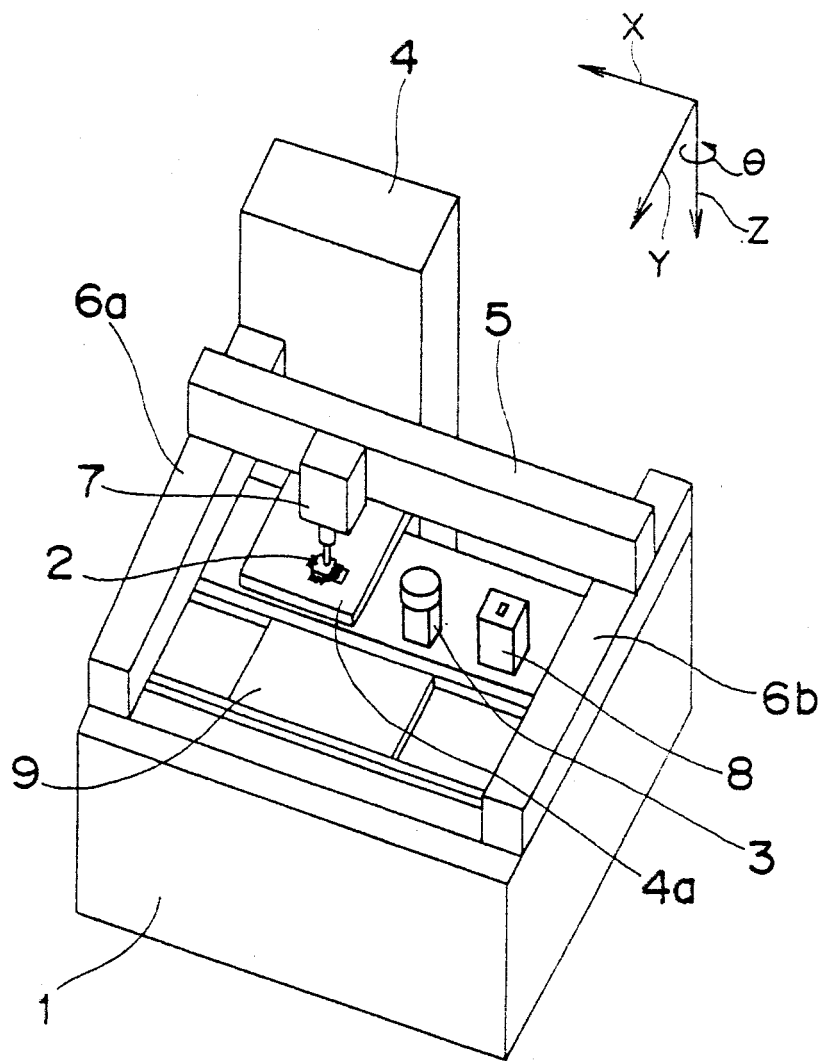


Fig.20

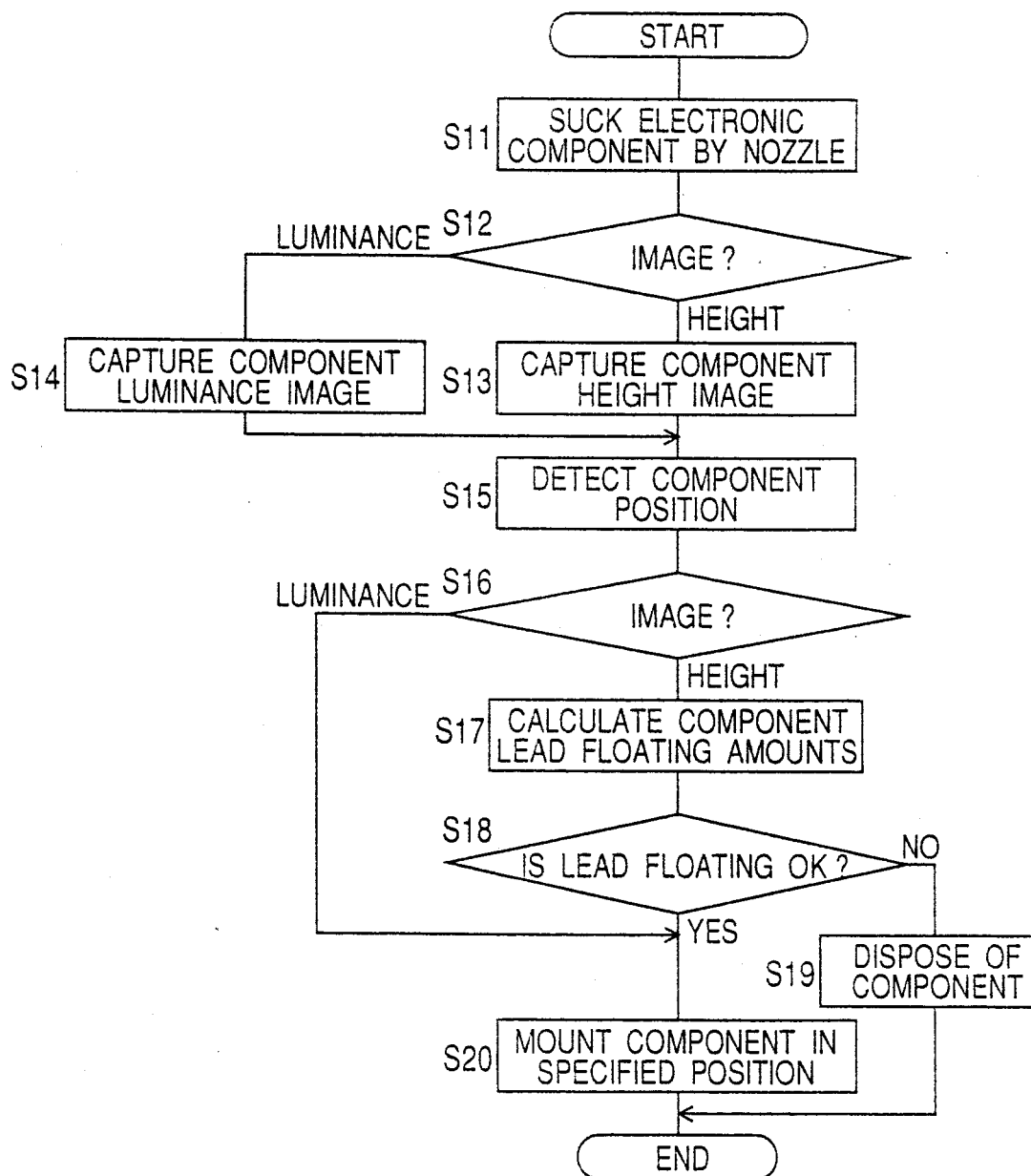


Fig. 21

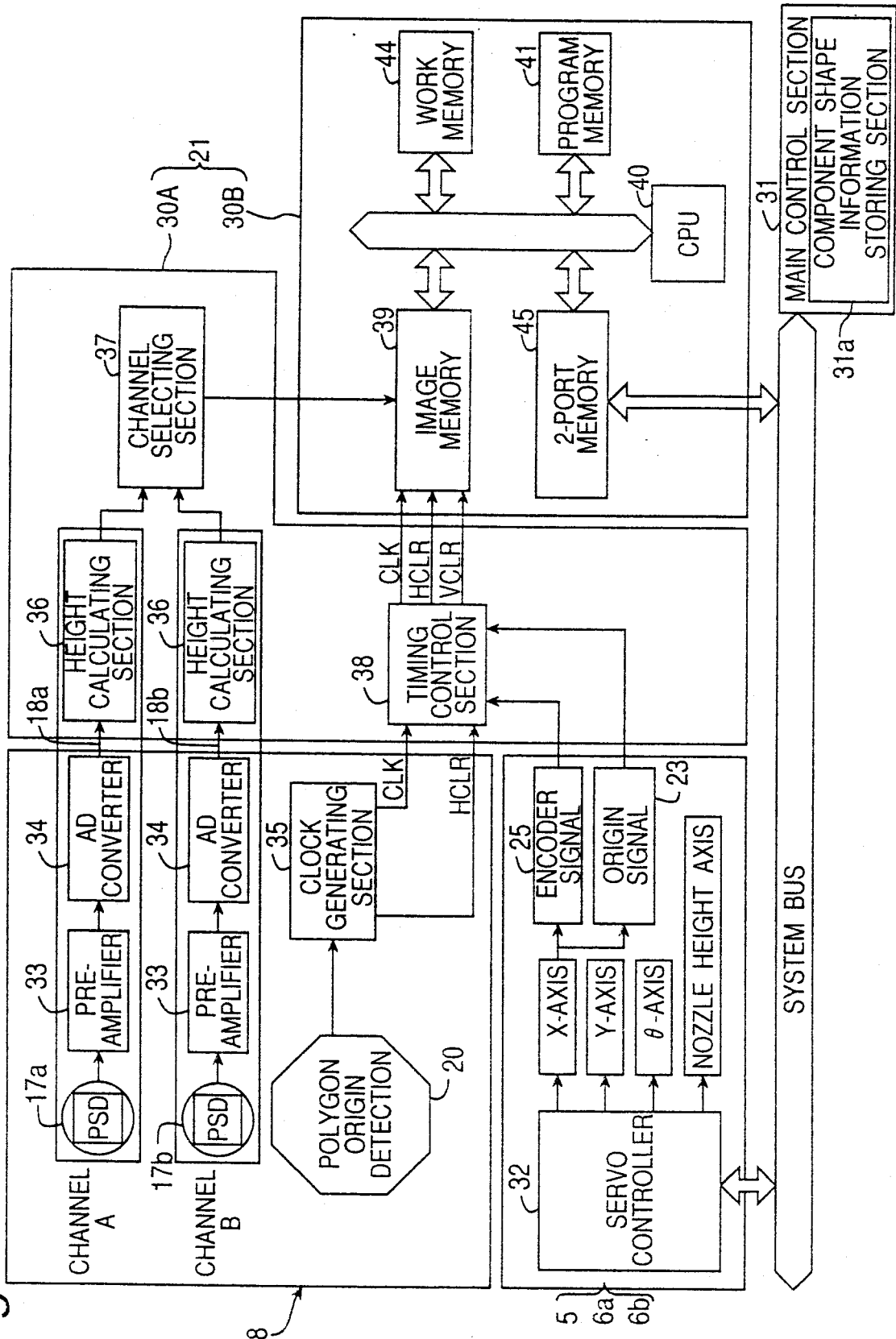


Fig.22

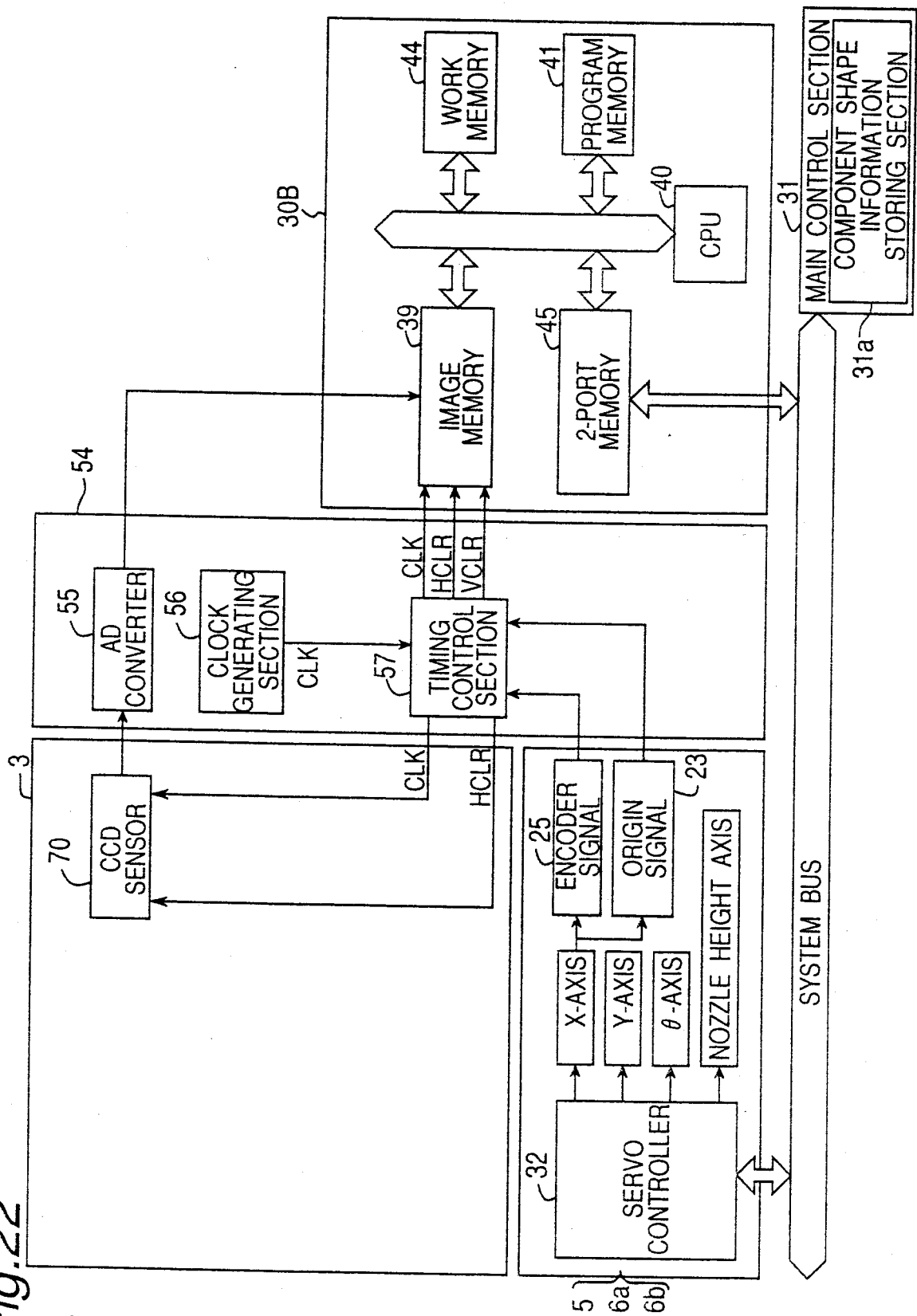


*Fig.23A*

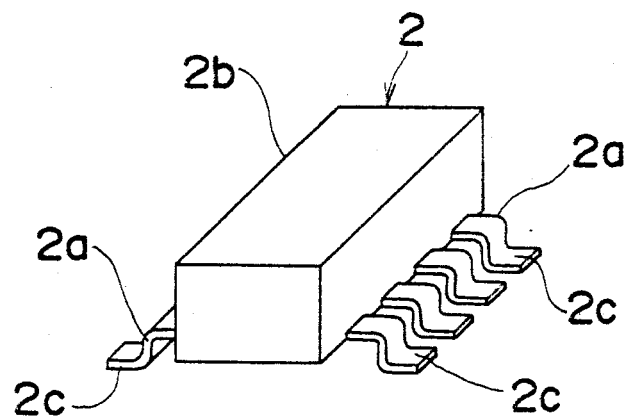


*Fig.23B*

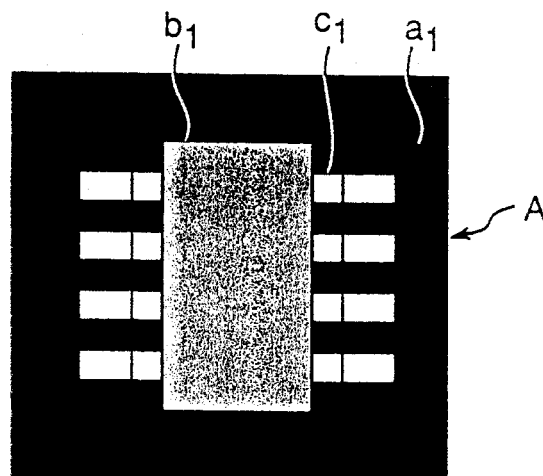


Fig.24A

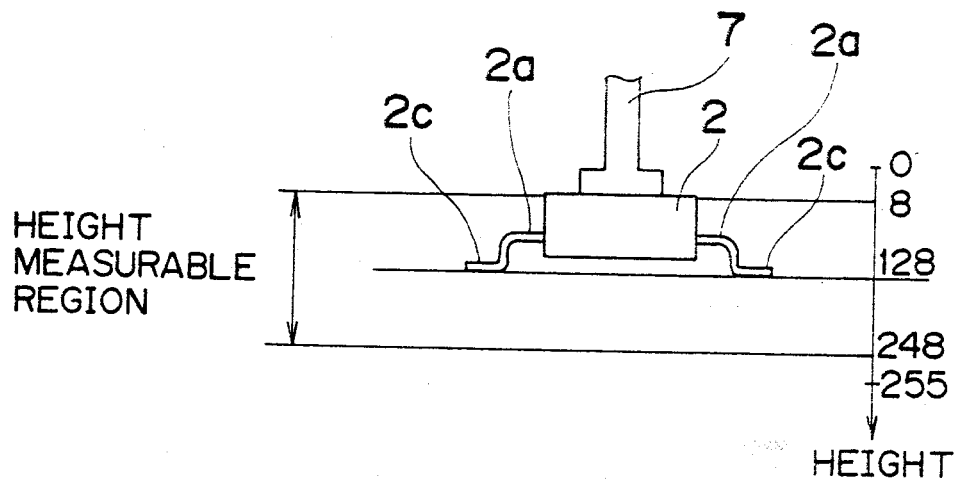


Fig.24B

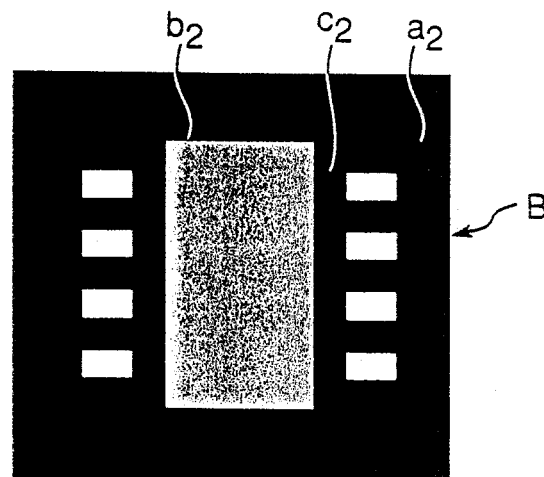


Fig. 25

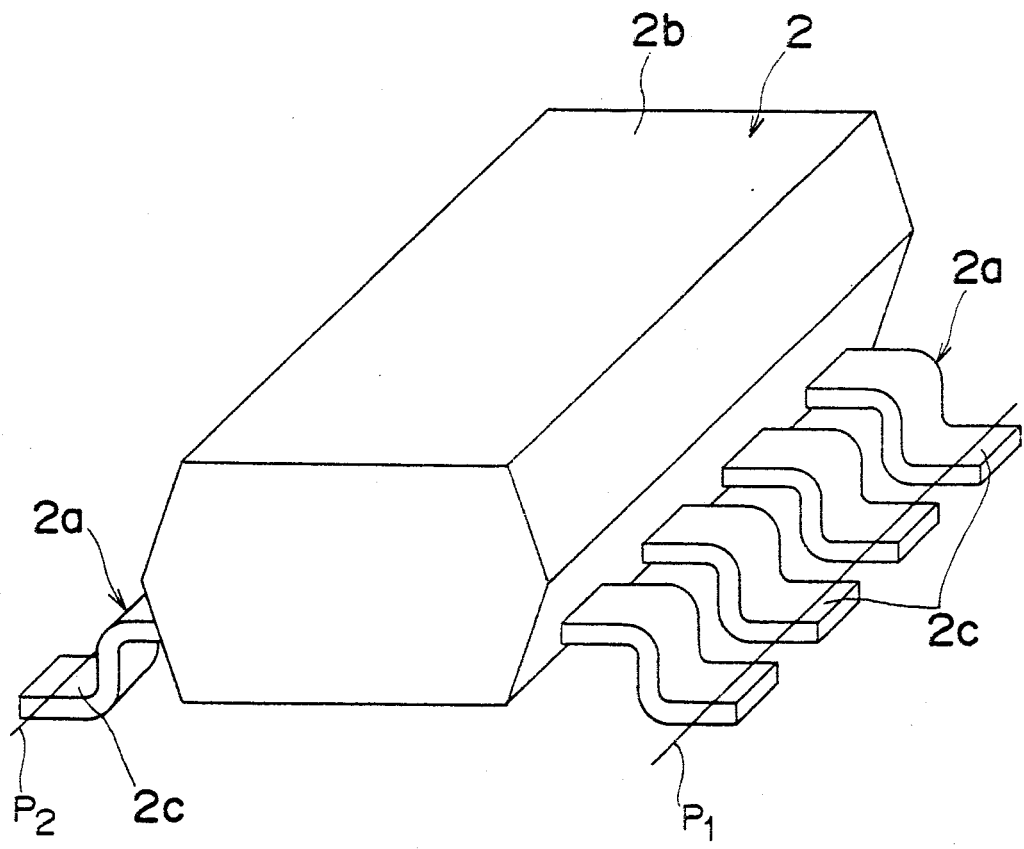


*Fig. 26*

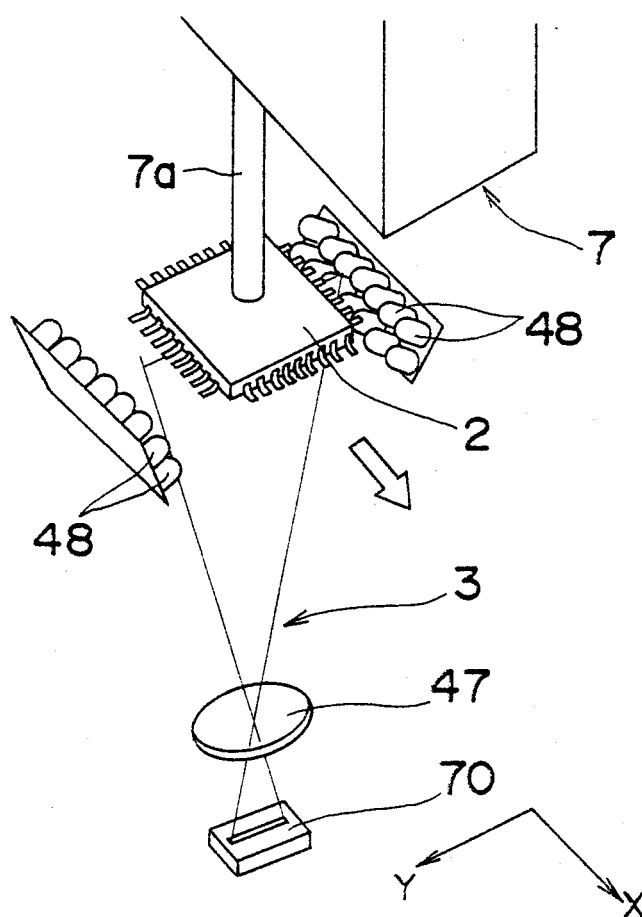


*Fig. 27*

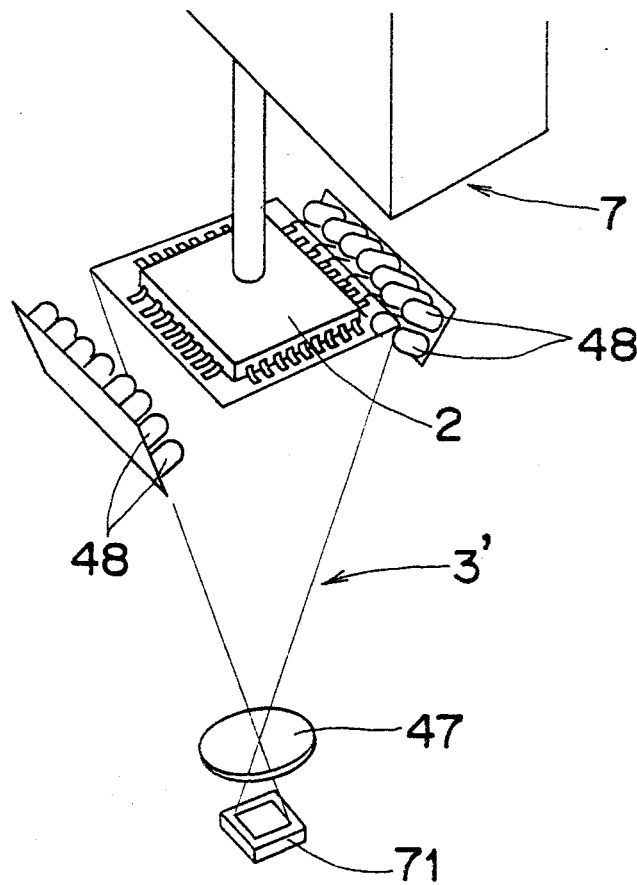


Fig.28

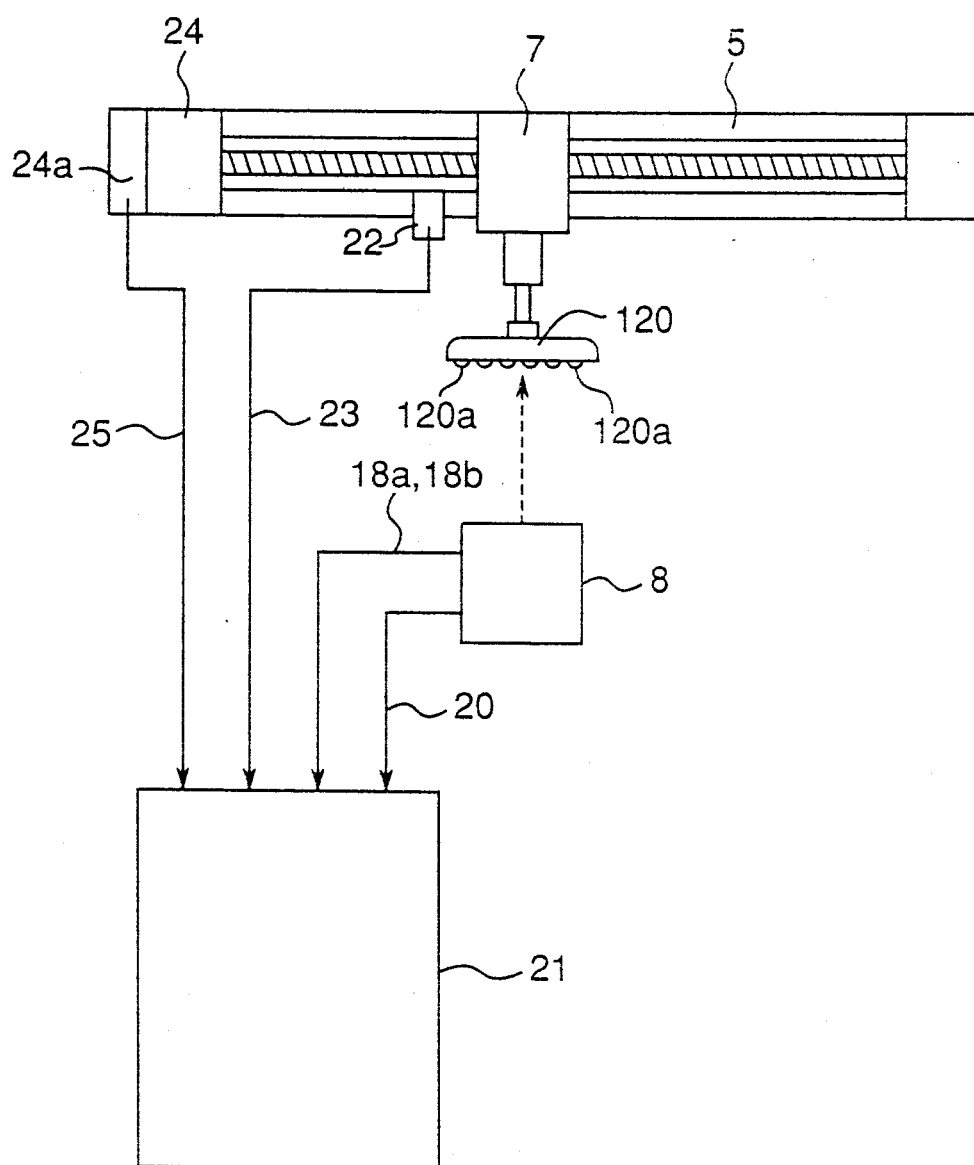


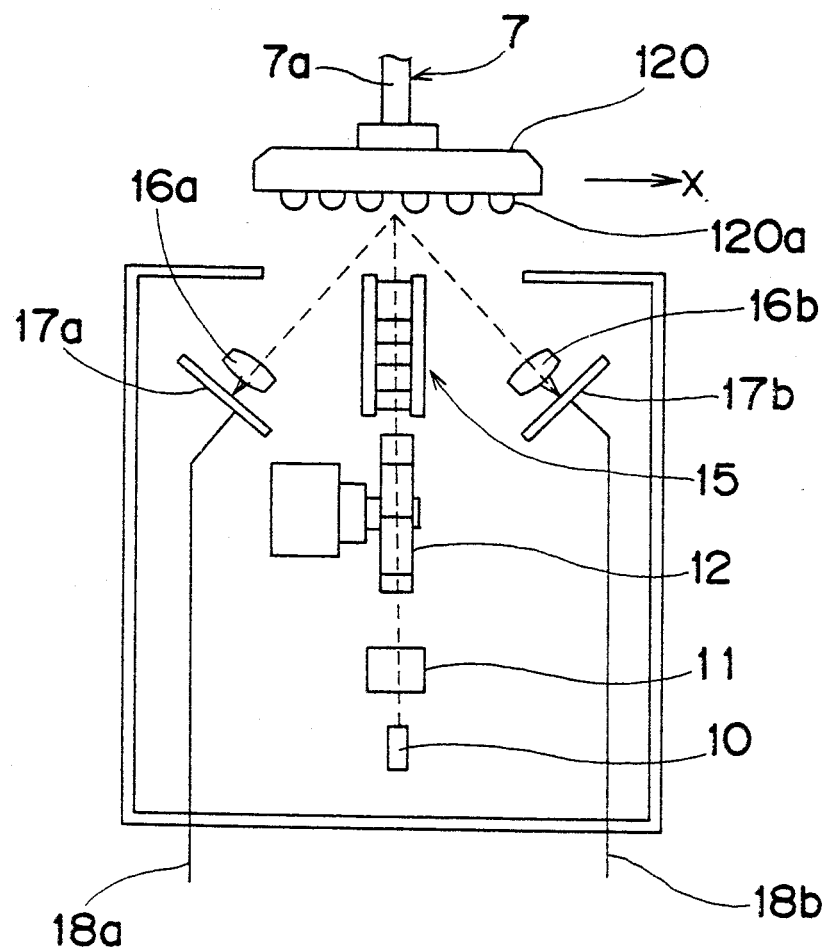
*Fig. 29*

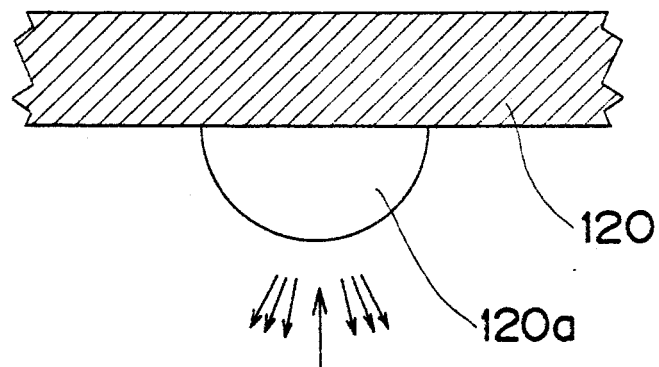
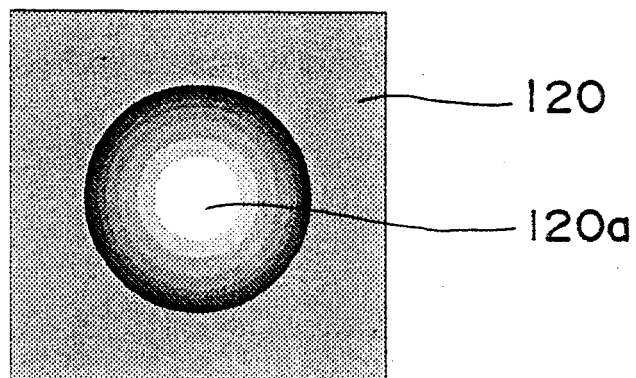
*Fig. 30A**Fig. 30B*

*Fig. 31*

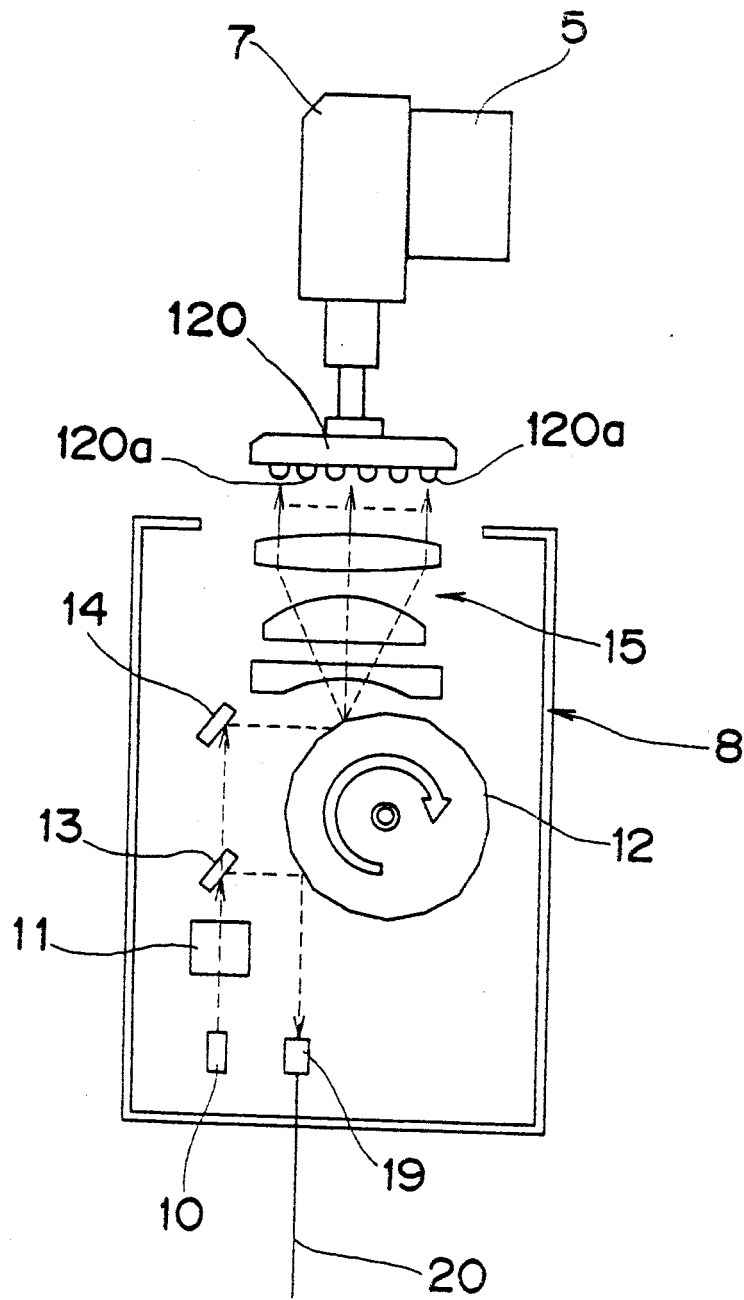
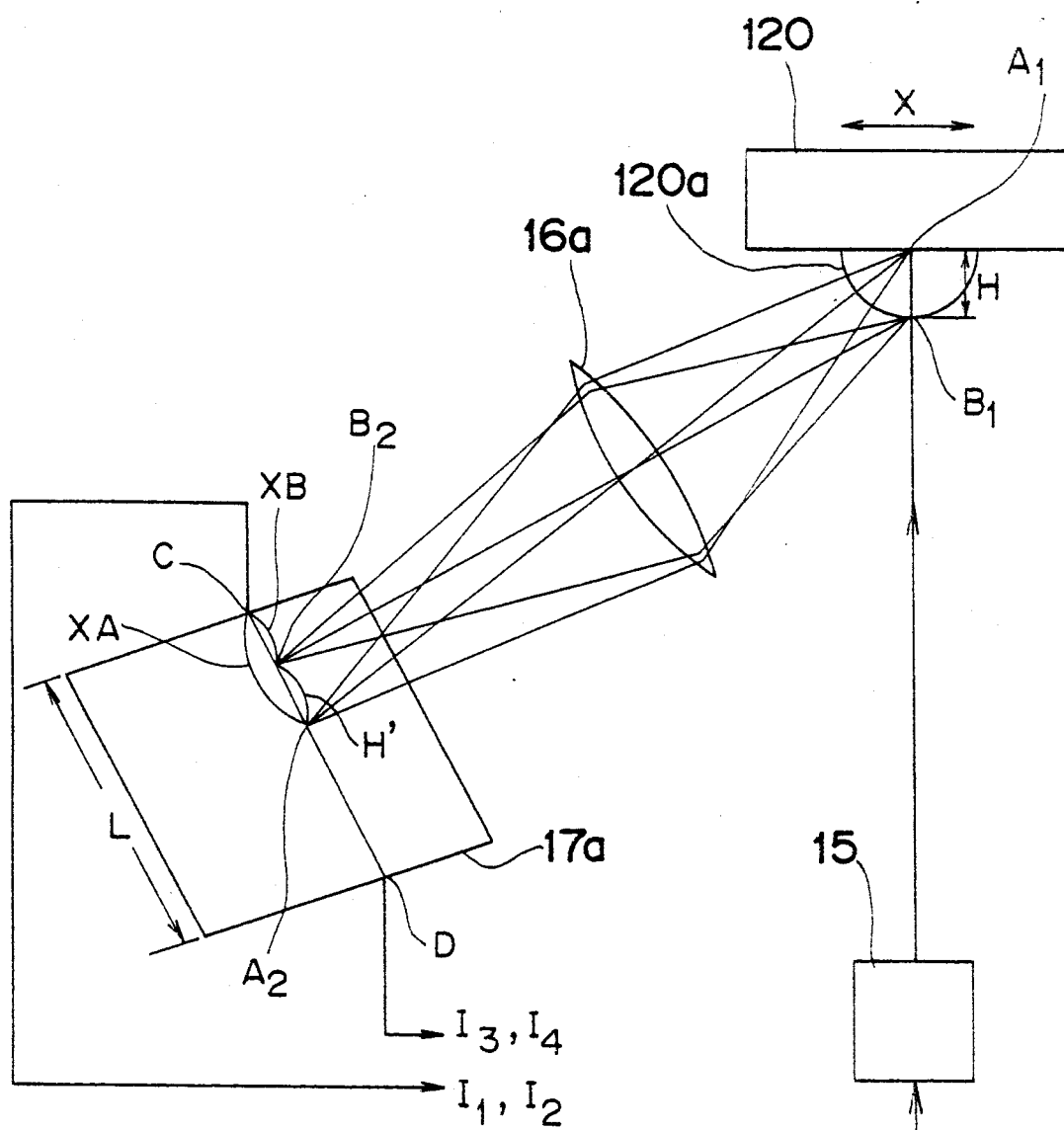


Fig. 32



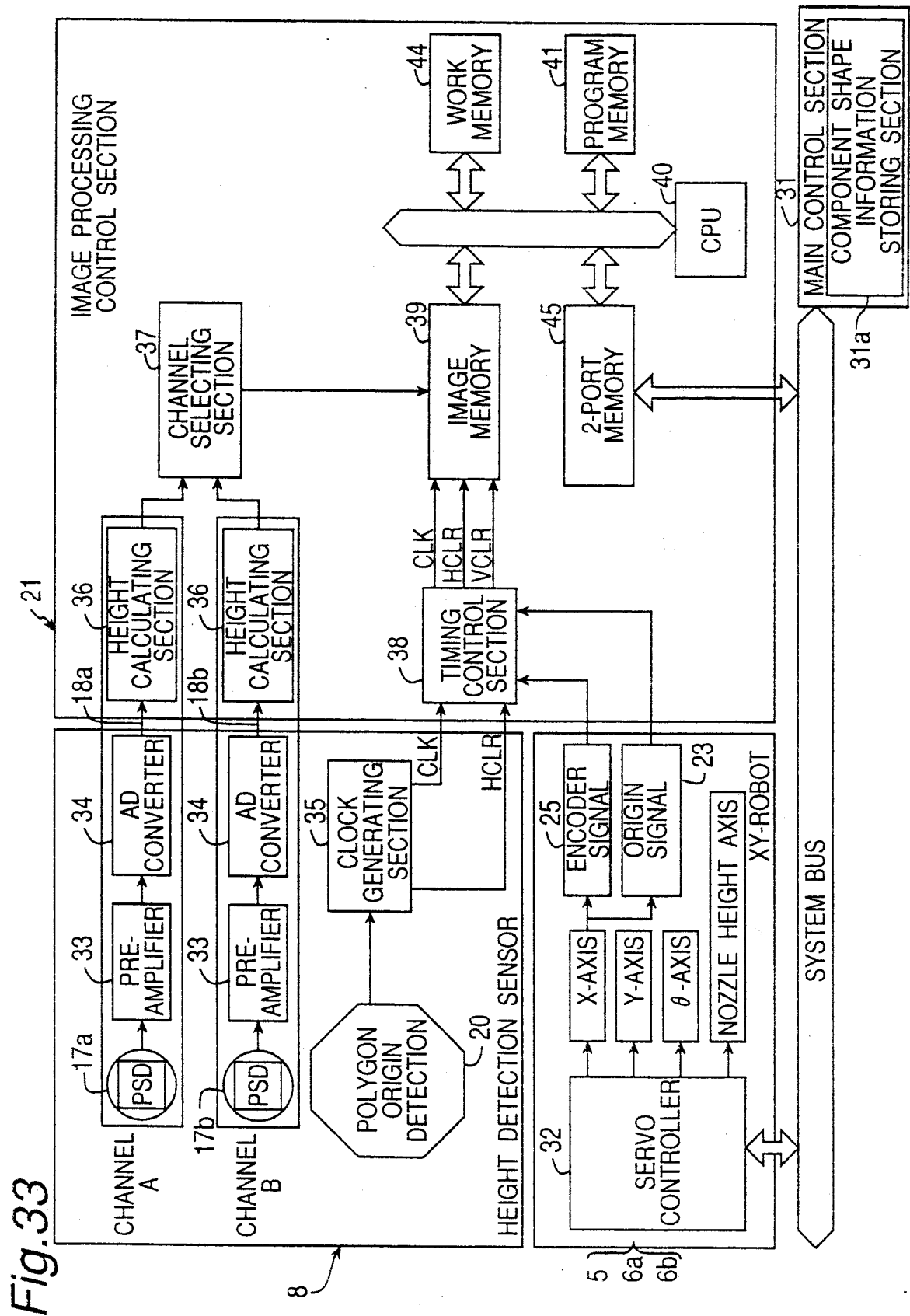


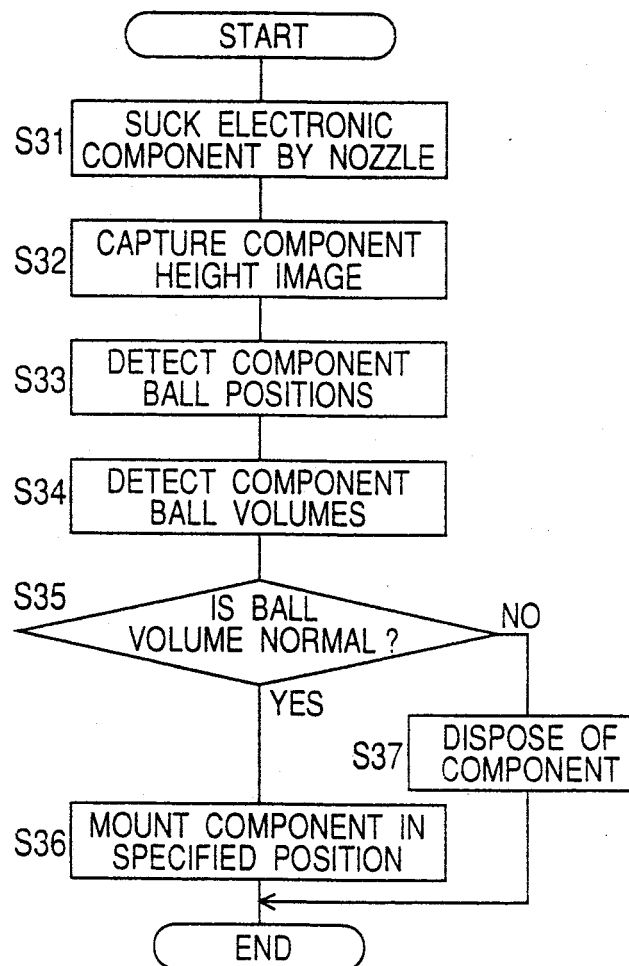
*Fig.34*

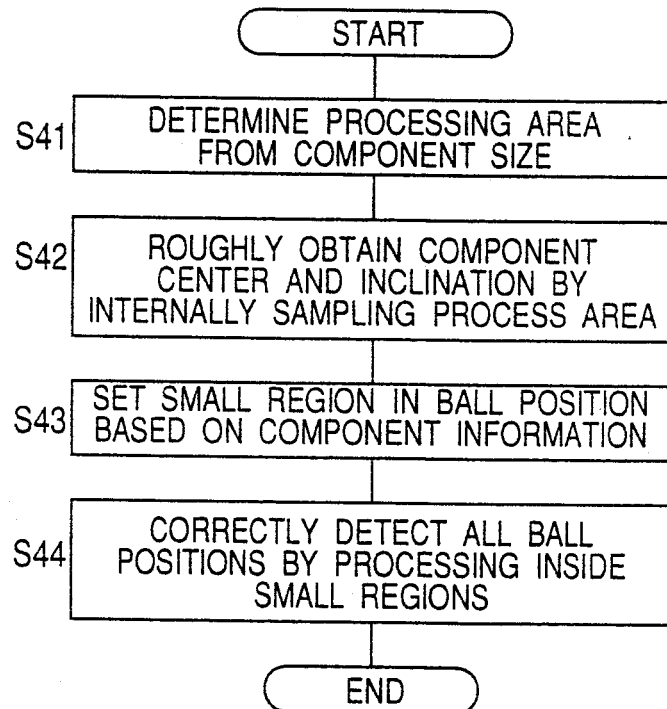
*Fig.35*

*Fig.36A*

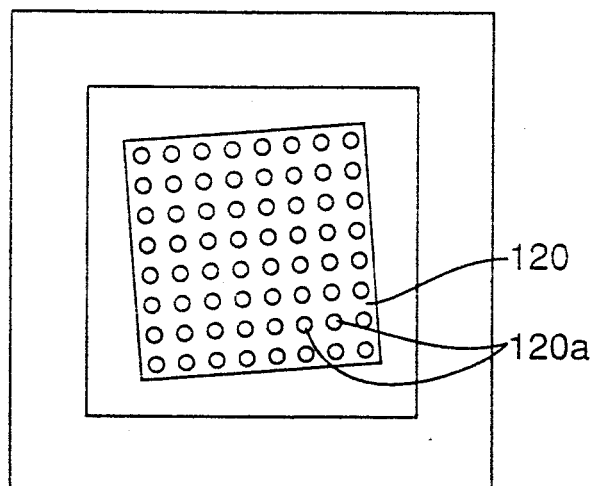


*Fig.36B*

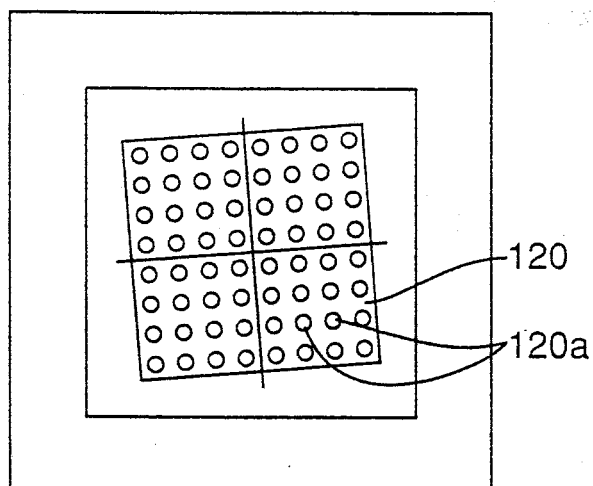


*Fig.36C*

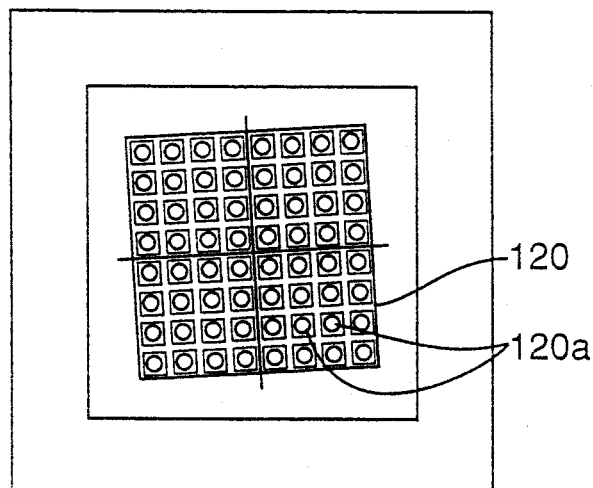


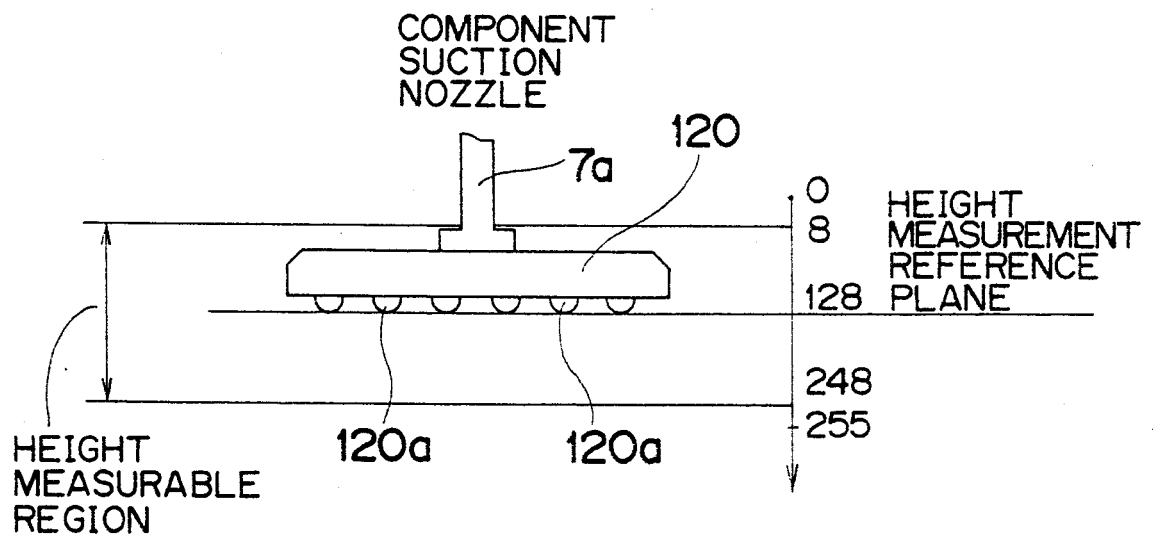
*Fig. 37*

Fig.38A

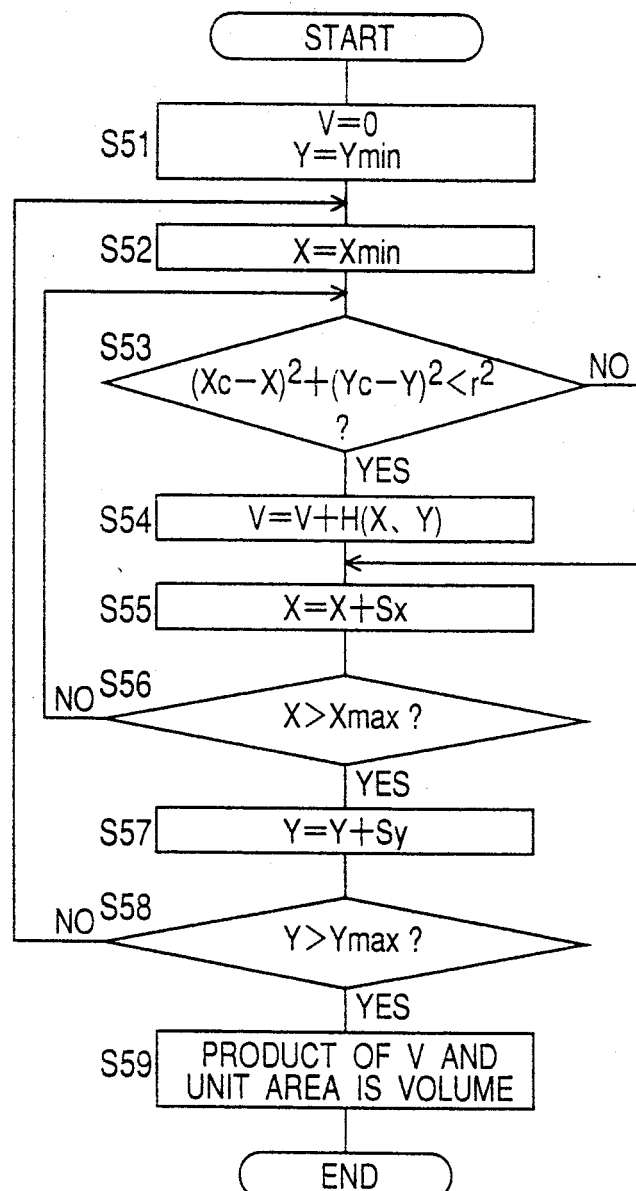


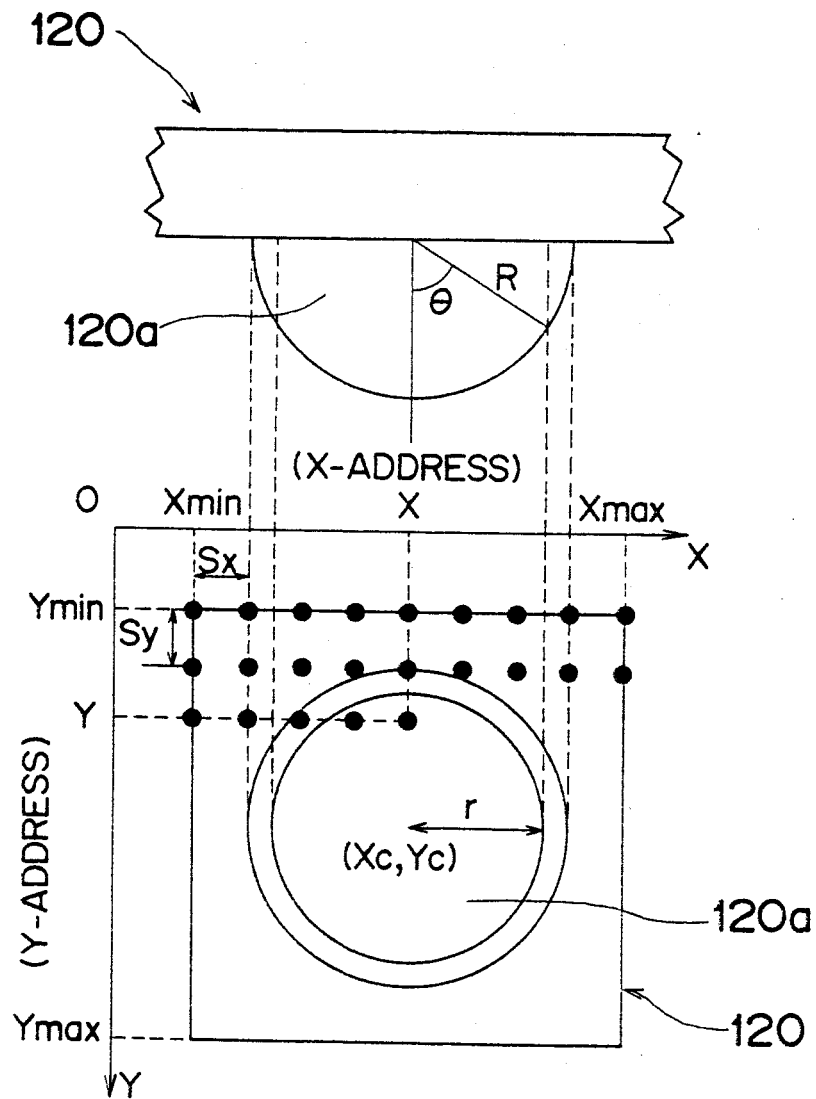
*Fig. 38B*

Fig.39A

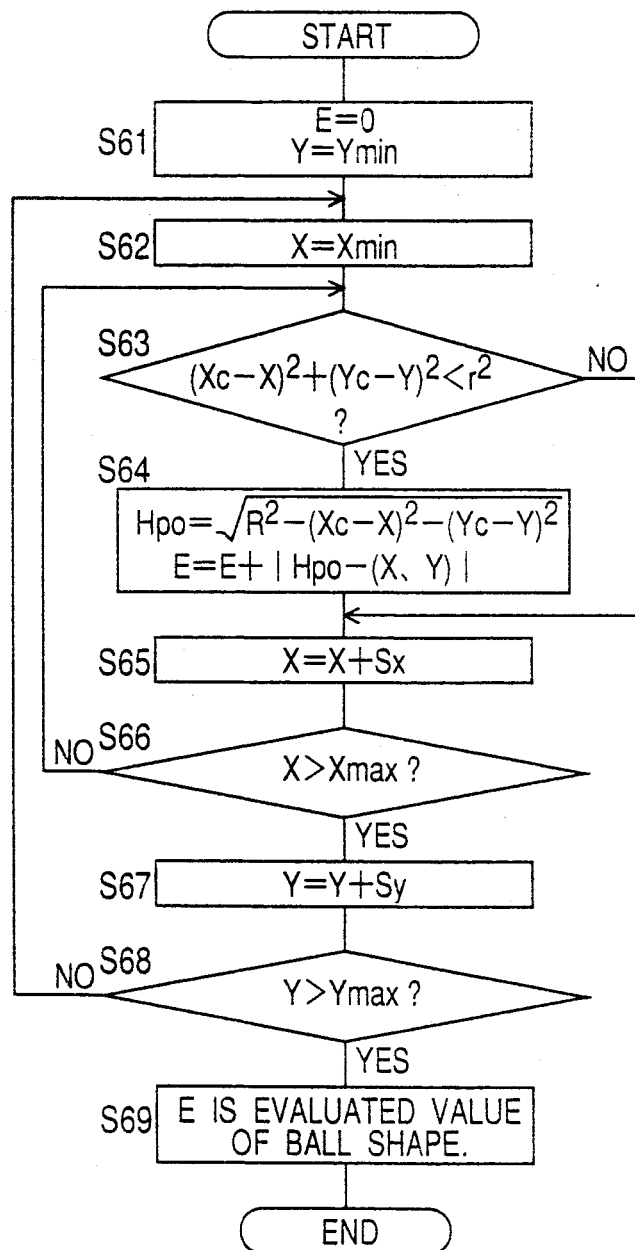
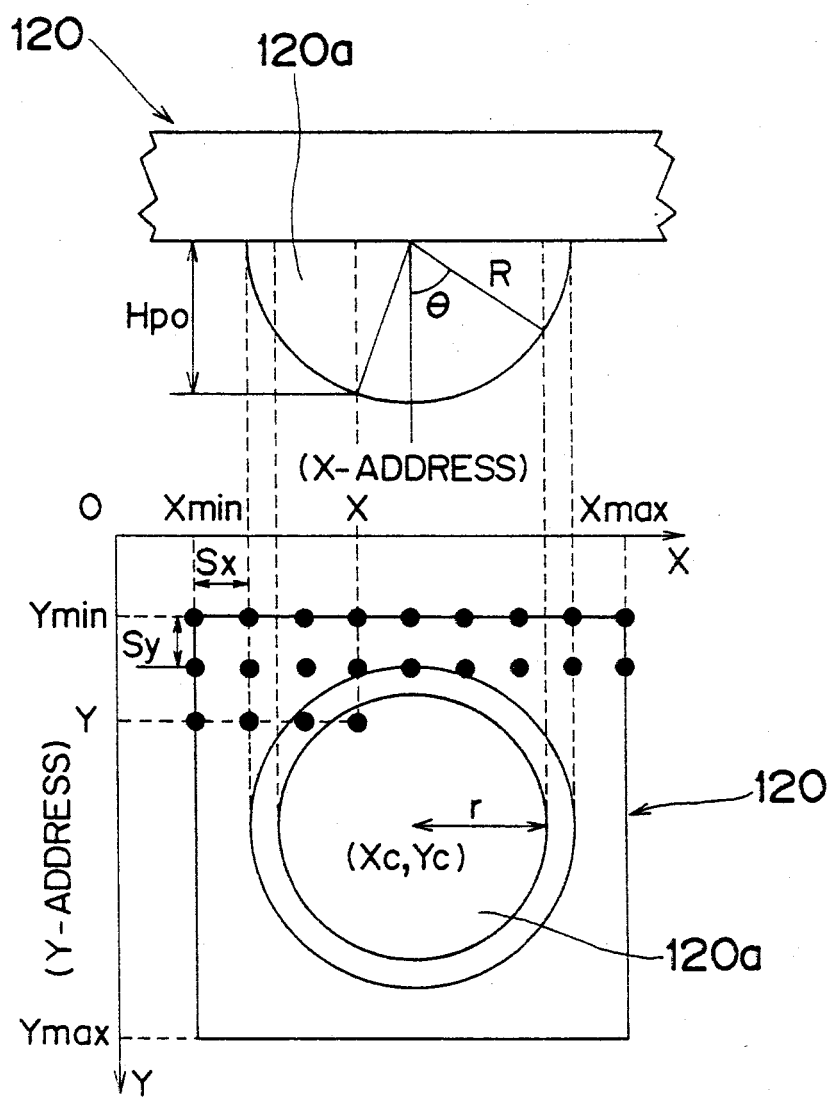


Fig. 39B



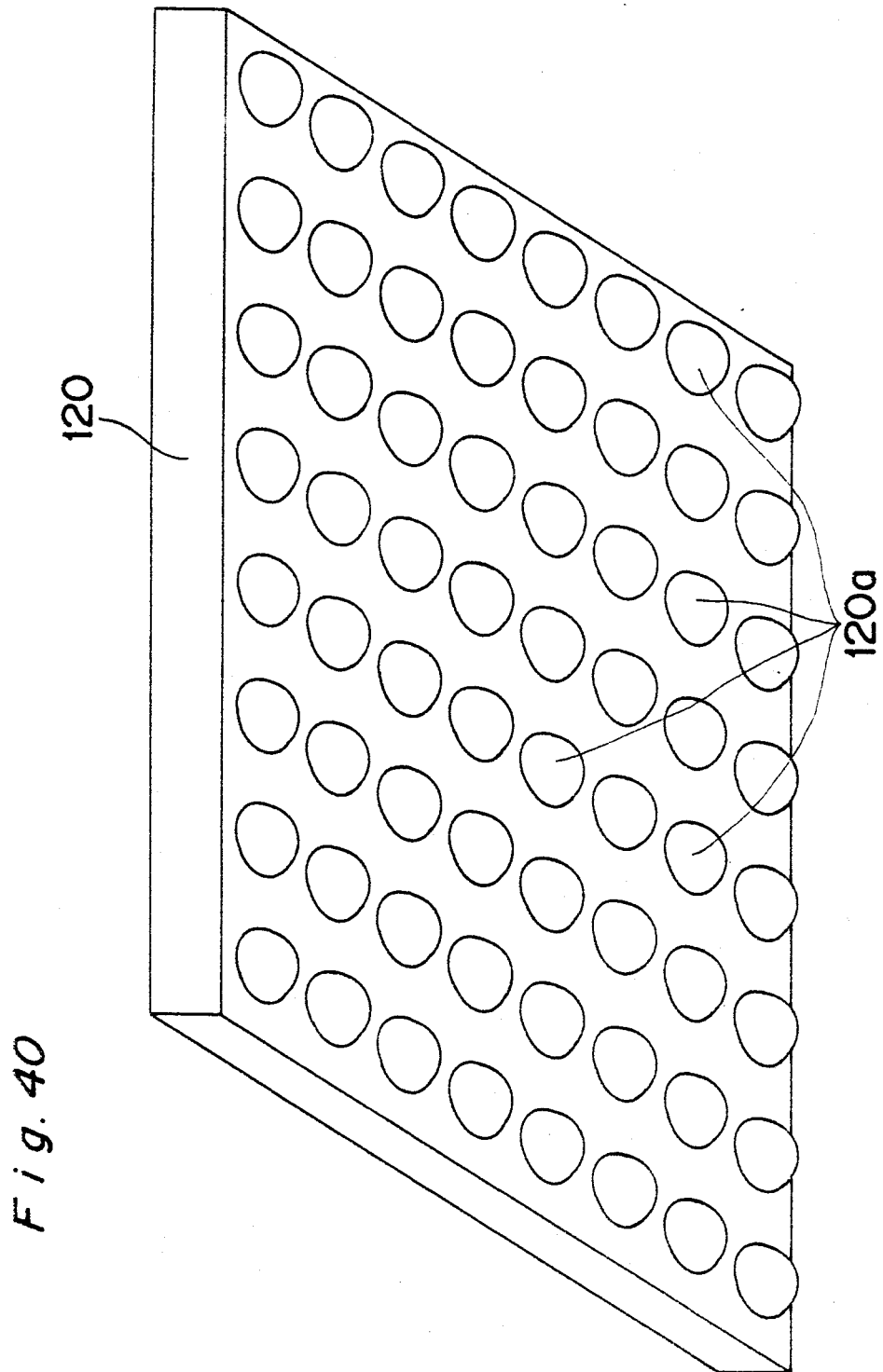


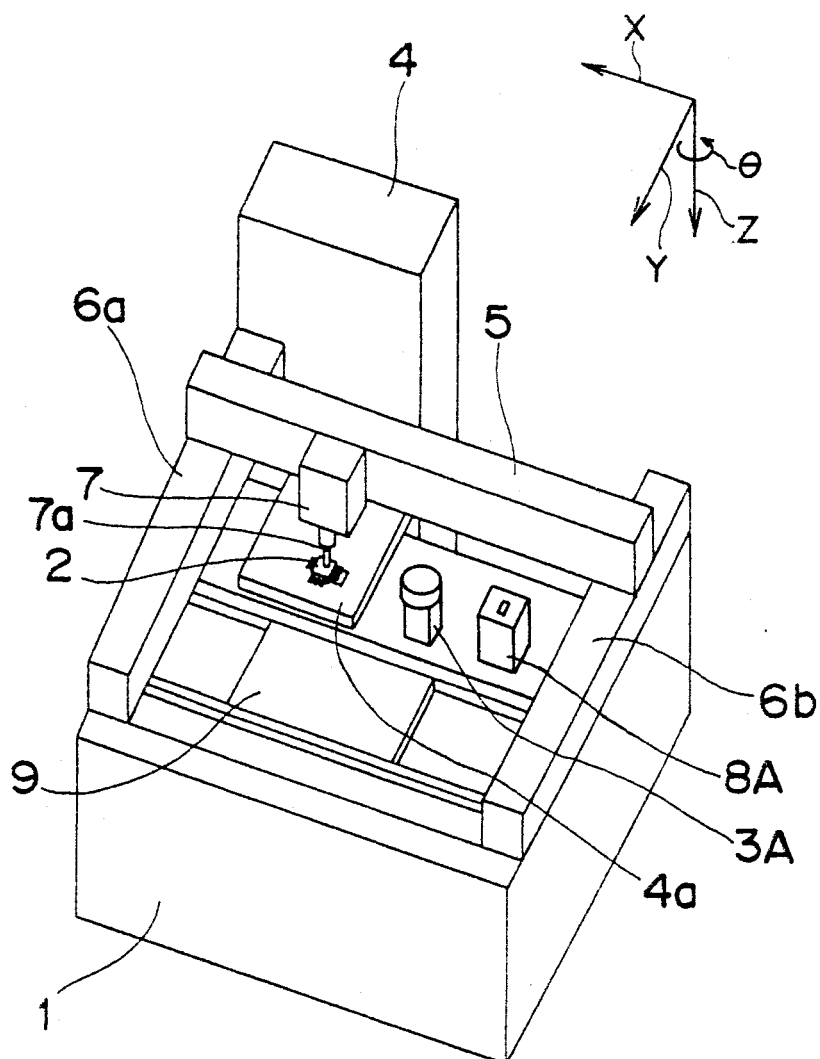
*Fig. 41*

*Fig. 42*

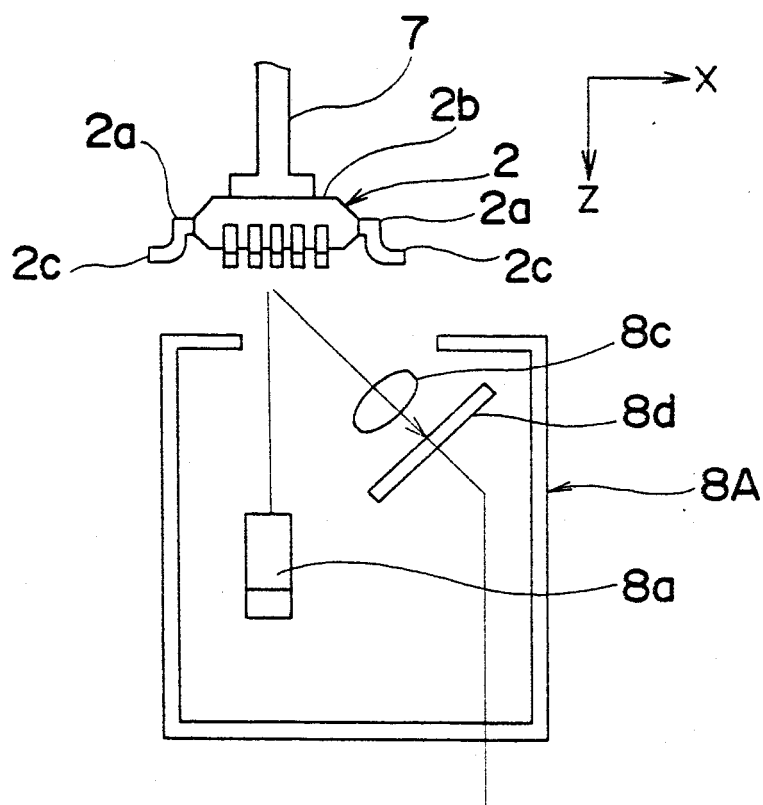


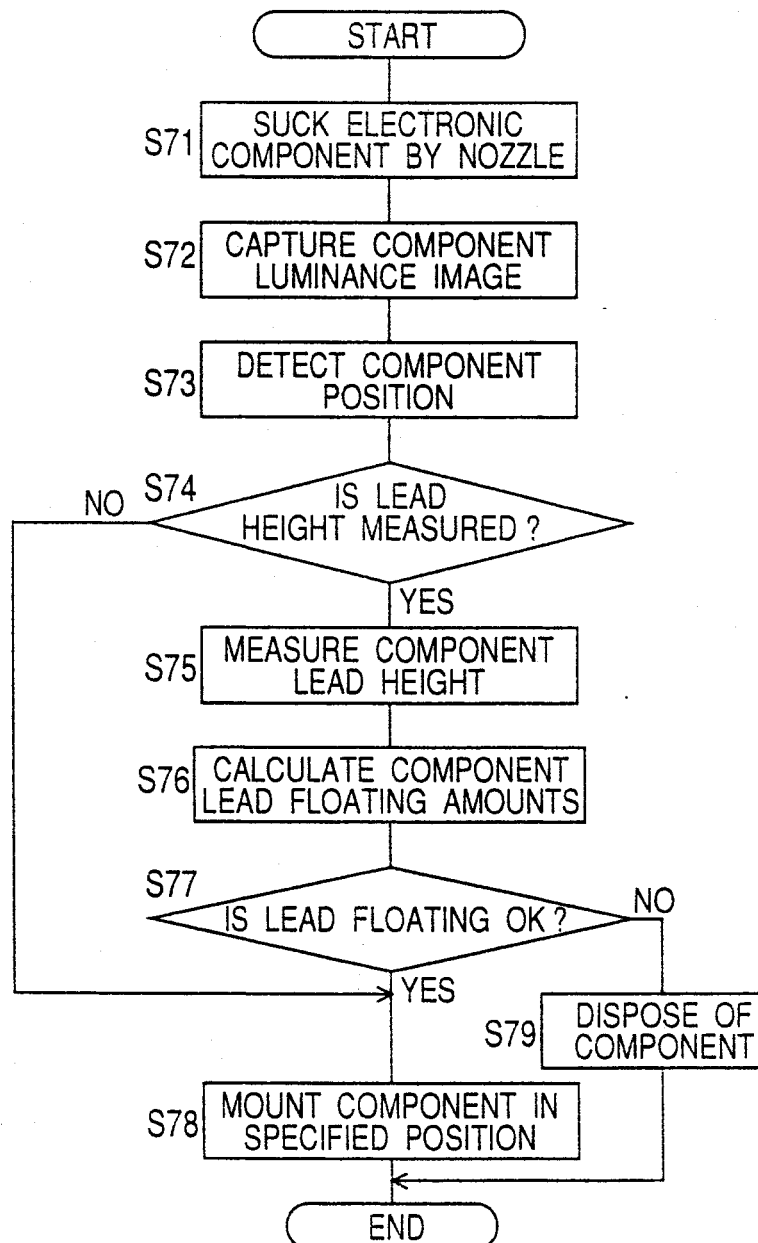
*Fig.43*

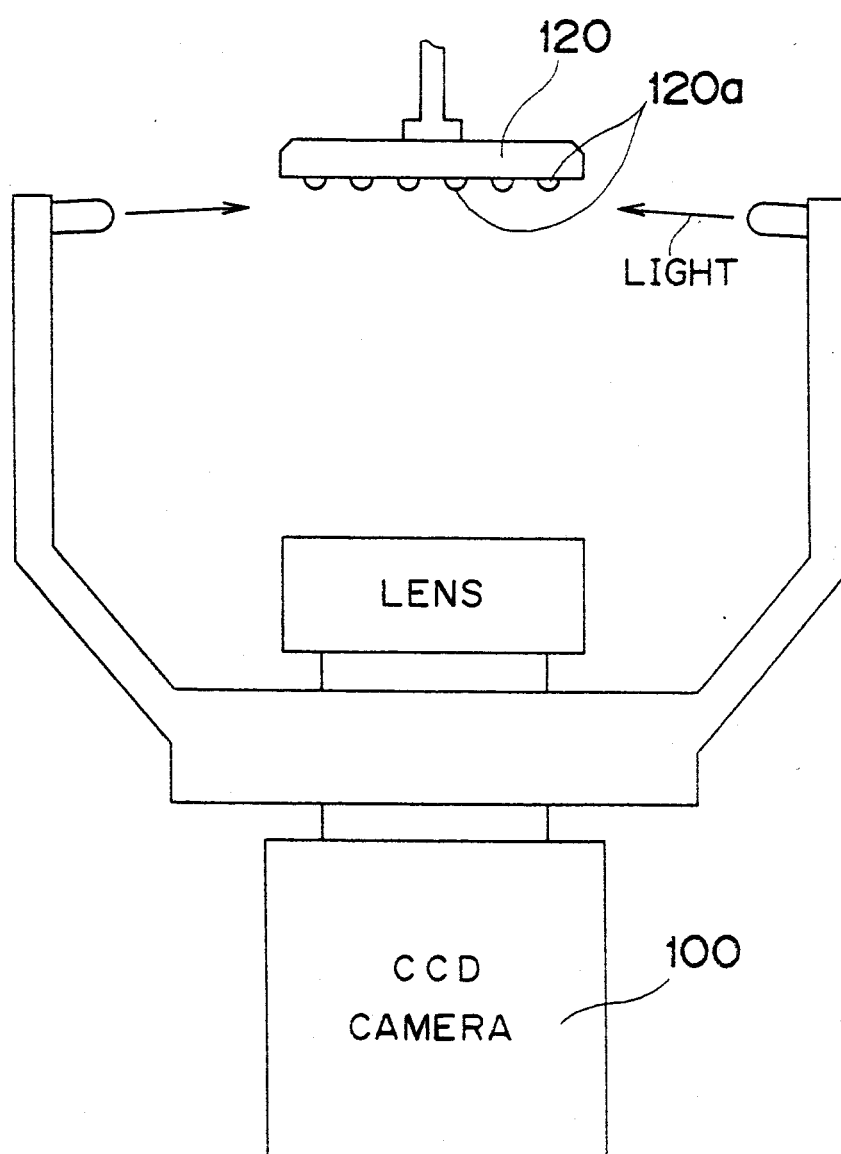
*Fig. 44*

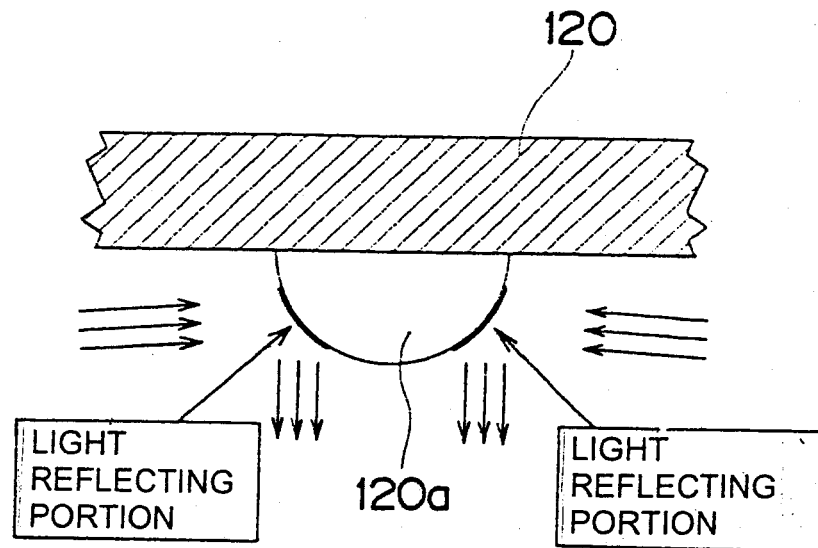
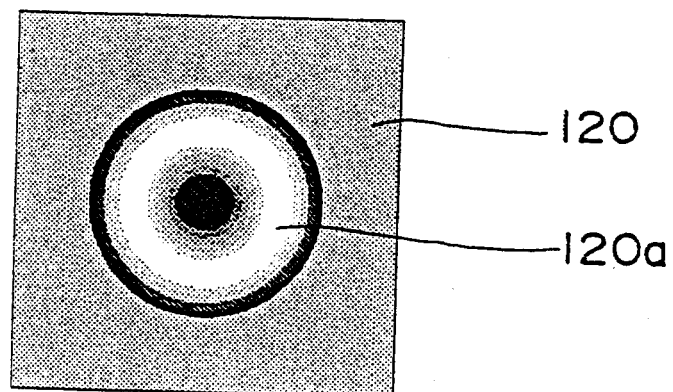
*Fig. 45A**Fig. 45B*

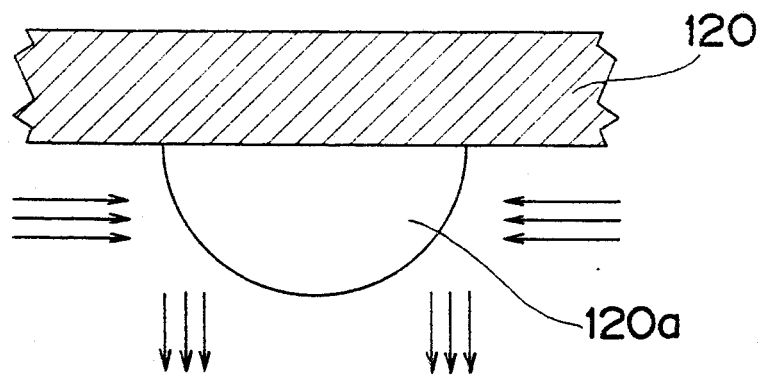
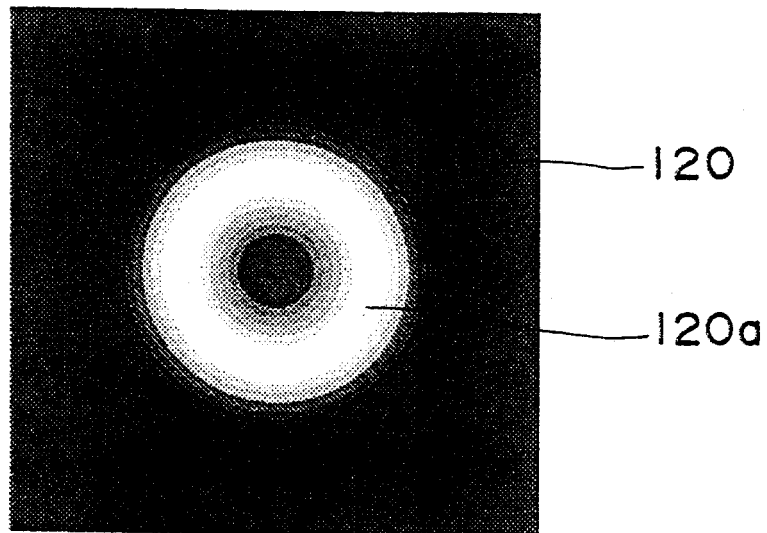
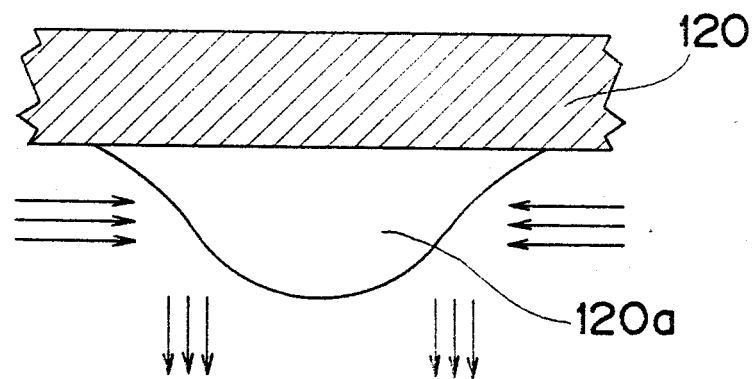
*Fig. 46A**Fig. 46B*

*Fig. 47A**Fig. 47B*