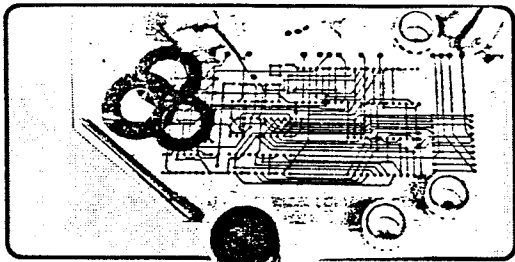


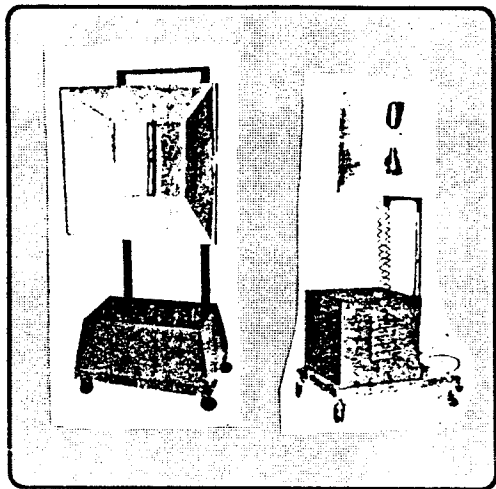
COPPER FOIL SHEET PHOTORESIST P.W.B. INSTRUCTION

1. ARTWORK (A/W) PREPARE :



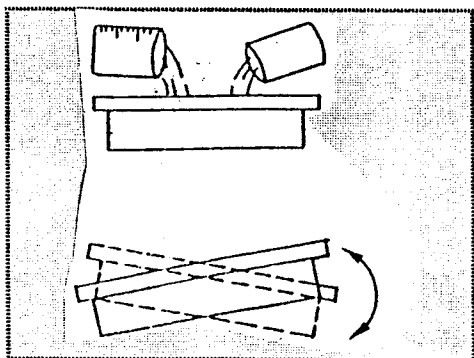
- A. HANDMAKE BY USING TRANSFER PAPER TYPE ON DRAWING FILM.
- B. BY COMPUTER CAD/CAM & PLOTTER DRAWING ...etc.

2. EXPOSURE :



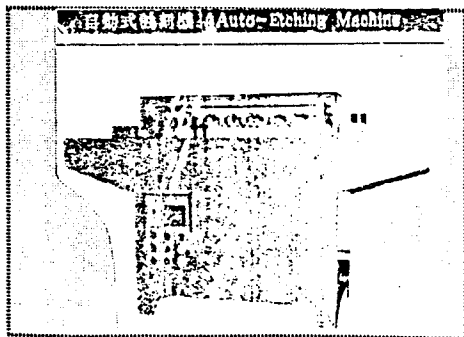
- A. TAKE OFF THE BLACK PROTECTING MEMBRANCE FORM PHOTORESIST SHEET BEFORE EXPOSURE.
- B. A/W MUST BE INDENSE TO CLOSE THE COPPER FOIL SHEET BEFORE EXPOSURE.
- C. EXPOSING TIME & DISTANCE....
 - a. 6-10 MINUTES AT 4-6 cm (by FLOURESCEN LAMP)
 - b. 60-90 SECONDS AT 40-80 cm (by CARBON-ARC LAMP)

3. DEVELOPMENT :



- A. DEVELOPER 50 g, water 1,000 cc AT TEMP. 15-35°C (1 : 20) as DEVELOPING SOLUTION.
- B. DEVELOPING TIME..... 0.5-2 MINUTES.
- C. CLEAN WITH CLEAN WATER AFTER DEVELOPMENT.
- D. DRY IT AFTER CLEAN.

4. ETCHING :



- A. ETCHING SOLUTION
CHLORIDE IRON + WATER (46:54)
AT 35°C
- B. ETCHING MACHINE (ETCHING TIME 4-10 MINUTES)OR PLASTIC TANK (ETCHING TIME 20-50 MINUTES).
- C. WATER CLEAN & DRY AFTER ETCHED