

## **IV.** Characteristics of Ag/Sb pattern

## V. Applied mode of static electric field VI. Elelctrodeposition system under



VII. Modeling for phase separation between conductor and insulator under the electric field VII-1. Qualitative calculation I VII-2. Formulation for model I VII-3. Comparison





## with constant voltage mode





 $W = R_{sep} I_0^2 \le R_{mix} I_0^2$ 

 $W = \frac{E_0^2}{R_{sep}} \ge \frac{E_0^2}{R_{mix}}$ 

If phase separation occurs, consumption energy decreases. If phase separation occurs, consumption energy increases.

Phase separation is energetically more stable under constant current mode

## Phase separation is stable.





Emergence