

**ELECTROPLATING ADDITIVE SOLUTION AND PREPARATION
METHOD THEREFOR, AND ELECTROPLATING MIXED SOLUTION
OF HARD SILVER AND GRAPHENE**

ABSTRACT

5 An electroplating additive solution, a preparation method thereof, and a hard
silver-graphene electroplating mixture liquid are provided. The electroplating
additive solution includes metal oxide, glycerol, alkali metal hydroxide and water.
The metal oxide, the glycerol, the alkali metal hydroxide and the water have a
mass ratio of 1:(1-3):(3-6):(8-15). When the electroplating additive of the present
10 disclosure is used in an electroplating mixture liquid, it can increase the hardness
of the finally formed plating layer.

(Figure 1)