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(54) Title (EN): SILVER ORGANO-SOL INK FOR FORMING ELECTRICALLY CONDUCTIVE PATTERNS

(54) Title (FR): ENCRE ORGANOSOL ARGENT PERMETTANT DE FORMER DES IMPRESSIONS ÉLECTRIQUEMENT CONDUCTRICES

(57) Abstract:

(EN): The present invention relates to solution type silver organo-sol ink for forming electrically conductive patterns. The present invention provides silver organo-sol ink of solution type for forming electrically conductive pattern comprising effective amount of silver CO to C16 aliphatic carboxylate saturated or unsaturated, linear or branched, unsubstituted or substituted with amino, nitro and/or hydroxy group(s) having 1 to 3 carboxyl groups or silver aromatic carboxylate; and organic solvent. By the present invention, silver organo-sol inks of solution type basically having higher content of silver for various reducing or metallizing temperatures are obtained. The solution type ink of the present invention can be used for forming conductive patterns in flat panel display such as plasma display panel(PDP) to reduce the numbers of steps for pattern forming. Some of the solution type ink of the present invention can be used for forming conductive patterns on a milder substrate such as thermoset plastic at a lower reducing temperature.

(FR): L'invention concerne une encre organosol argent sous forme de solution, qui permet de former des impressions électriquement conductrices. L'encre selon l'invention contient : une quantité efficace de carboxylate aliphatique C₀-C₁₆ d'argent, saturé ou insaturé, linéaire ou ramifié, non substitué ou substitué par amino, nitro et/ou un ou plusieurs groupes hydroxy possédant de 1 à 3 groupes carboxyle, ou un carboxylate aromatique d'argent; et un solvant organique. L'invention permet d'obtenir une encre organosol argent sous forme de solution présentant une teneur en argent plus élevée pour diverses températures de réduction ou de métallisation. L'encre sous forme de solution selon l'invention peut servir à former des impressions conductrices sur un écran plat tel qu'un écran à plasma (PDP), afin de réduire le nombre d'étapes nécessaires à la formation des impressions conductrices. Une encre sous forme de solution selon l'invention peut servir à former des impressions conductrices sur un substrat plus doux, tel qu'un plastique thermodurci à une température de réduction moins élevée.

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