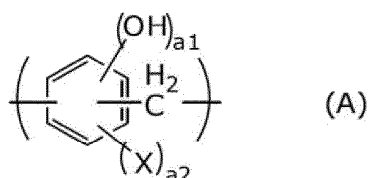


Patent Claims

1. A negative type photosensitive composition comprising
 (I) an alkali-soluble resin comprising a polymer comprising a repeating unit represented by formula (A):



wherein,

X is each independently a C₁₋₂₇ substituted or unsubstituted hydrocarbon group,

a₁ is 1 to 2, and

a₂ is 0 to 3,

(II) a reflectance modifier,

(III) a polymerization initiator, and

(IV) a solvent.

2. The composition according to claim 1, wherein at least one X is

-L-Ar

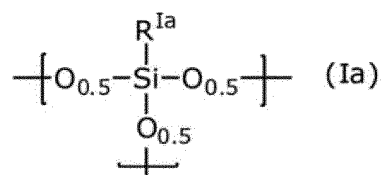
wherein,

L is a C₁₋₈ linear or branched alkylene, and

Ar is a C₆₋₂₂ substituted or unsubstituted aryl.

3. The composition according to claim 1 or 2, wherein the alkali-soluble resin further comprises a polysiloxane and/or an acrylic polymer.

4. The composition according to claim 3, wherein the polysiloxane comprises a repeating unit represented by formula (Ia):



wherein,

R^{Ia} represents hydrogen, a C₁₋₃₀ linear, branched or cyclic, saturated or unsaturated, aliphatic hydrocarbon group or aromatic hydrocarbon group, the aliphatic hydrocarbon group and the aromatic hydrocarbon group are each unsubstituted or substituted with fluorine, hydroxy, or C₁₋₈ alkoxy, and in the aliphatic hydrocarbon group and the aromatic hydrocarbon group, methylenes are not replaced, or one or more methylene is replaced with oxy, imino or carbonyl, provided that R^{Ia} is neither hydroxy nor alkoxy.

5. The composition according to any one of claims 1 to 4, wherein the reflectance modifier is selected from at least one of the group consisting of alumina, magnesium oxide, antimony oxide, titanium oxide, titanium oxynitride, titanium nitride, zirconium oxide, aluminum hydroxide, magnesium hydroxide, barium sulfate, magnesium carbonate, and barium carbonate.

6. The composition according to any one of claims 1 to 5, wherein the content of the reflectance modifier is 10 to 150 mass % based on the total mass of the alkali-soluble resin.

7. The composition according to any one of claims 1 to 6, further comprising (V) a compound containing two or more (meth)acryloyloxy groups.

8. A method for producing a cured film comprising applying the composition according to any one of claims 1 to 7 on a substrate to form a film, exposing the film, and heating the film.

9. The method according to claim 8, wherein the heating temperature is 150 to 300 °C.
10. A cured film produced by the method according to claim 8 or 9.
11. The cured film according to claim 10, wherein the optical density (OD) is 1 or more.
12. A device comprising the cured film according to claim 10 or 11.