CLAIMS

1. A photocurable composition comprising the following components (A) to (D):

component (A): a leuco dye;

component (B): a salt having an anion selected from the group consisting of $[P(Rf)_aF_{6-a}]^-$, $[Sb(Rf)_bF_{6-b}]^-$ and $[B(Rf)_cF_{4-c}]^-$ (in the formulae, Rf represents a fluoroalkyl group having 1 to 20 carbon atoms, a and b each independently represent an integer of from 1 to 5, and c represents an integer of from 1 to 3) and an aryl sulfonium cation selected from the group consisting of a 4-phenylthiophenyldiphenyl sulfonium cation, and a tri-p-tolyl sulfonium cation;

component (C): a radical polymerizable compound containing a urethane (meth)acrylate compound; and

component (D): a photoradical initiator.

2. The photocurable composition according to claim 1, wherein

the component (B) is a salt having an anion represented by $[P(Rf)_aF_{6-a}]^-$ (in the formula, Rf represents a fluoroalkyl group having 1 to 20 carbon atoms and a represents an integer of from 1 to 5).

3. The photocurable composition according to claim 1, wherein

$[P(Rf)_aF_{6-a}]^-$ of the component (B) is an anion selected from the group consisting of $[(CF_3CF_2)_3PF_3]^-$, $[(CF_3CF_2CF_2)_2PF_4]^-$, $[(CF_3CF_2CF_2)_3PF_3]^-$, $[(CF_3CF_2CF_2CF_2)_2PF_4]^-$, and $[(CF_3CF_2CF_2CF_2)_3PF_3]^-$.

4. The photocurable composition according to claim 1, wherein

the component (B) is at least one salt selected from the group consisting of triphenyl sulfonium-tris(perfluoroethyl)trifluorophosphate salt, triphenyl sulfonium-tris(perfluoropropyl)trifluorophosphate salt, tri-p-tolyl sulfonium-tris(perfluoroethyl)trifluorophosphate salt, tri-p-tolyl sulfonium-tris(perfluoropropyl)trifluorophosphate salt, 4-phenylthiophenyldiphenyl sulfonium-tris(perfluoroethyl)trifluorophosphate salt, and 4-phenylthiophenyldiphenyl sulfonium-tris(perfluoropropyl)trifluorophosphate salt.

5. The photocurable composition according to claim 1, wherein

the component (B) is contained at 0.1 to 20 parts by mass relative to 100 parts by mass of the component (C).

6. The photocurable composition according to claim 1, wherein

the component (C) contains an oligomer and a monomer, and where the mass ratio of the monomer to the oligomer is 50:50 to 80:20.

7. The photocurable composition according to claim 1, wherein

the component (D) is an acetophenone-based photoradical polymerization initiator or an acylphosphine oxide-based photoradical polymerization initiator.

8. The photocurable composition according to claim 1, wherein

the photocurable composition is used for a covering agent, a casting agent, a seal agent, a potting agent, an adhesive, or a coating agent.

9. The photocurable composition according to claim 1, wherein

said component (D) is included in an amount of 0.1 to 15 parts by mass relative to 100 parts by mass of the component (C).

10. The photocurable composition according to claim 1, wherein the component (A) is included in an amount of 0.01 to 20 parts by mass relative to 100 parts by mass of the component (C).

11. The photocurable composition according to claim 1, wherein said component (C) contains a urethane (meth)acrylate oligomer.

12. The photocurable composition according to claim 1, wherein said component (C) contains a urethane (meth)acrylate oligomer having a polyester skeleton.

13. The photocurable composition according to claim 1, wherein said aryl sulfonium cation consists of 4-phenylthiophenyldiphenyl sulfonium cation.