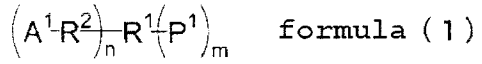
DISPERSION COMPOSITION, AND CURABLE COMPOSITION, TRANSPARENT FILM, MICROLENS AND SOLID-STATE IMAGING DEVICE USING SAME, AND POLYMER COMPOUND

ABSTRACT

To provide a dispersion composition having a high refractive index and giving an excellent surface state to a film after coating, and a curable composition, a transparent film, a microlens and a solid-state imaging device each using the dispersion composition; and provide a compound able to afford a dispersion composition having a high refractive index and giving an excellent surface state to a film after coating and drying and maintain the dispersion stability of particles.

A dispersion composition containing (A) a metal oxide particle having a primary particle diameter of 1 to 100 nm, (B) a polymer compound represented by the following formula (1) having a weight average molecular weight of 10,000 or less, and (C) a solvent:



formula (1)

in formula (1),

R^1 represents an (m+n)-valent linking group, R^2 represents a single bond or a divalent linking group, A^1 represents a monovalent substituent having at least one group selected from the group consisting of an acid group, a urea group, a urethane group, a coordinating oxygen atom-containing group, a basic nitrogen atom-containing group, a phenol group, an alkyl group, an aryl group, an alkyleneoxy chain-containing group, an imide group, an alkyloxycarbonyl group, an alkylaminocarbonyl group, a carboxylate group, a sulfonamide group, a heterocyclic group, an alkoxysilyl group, an epoxy group, an isocyanate group and a hydroxyl group, n number of A^1 or R^2 may be the same or different from each other,

m represents a positive number of 8 or less, n represents from 1 to 9, m+n satisfies the range of 3 to 10,

P^1 represents a polymer chain, and m number of P^1 may be the same or different from each other.

(FIG. 1)