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(54) Title: COLORED RADIATION-SENSITIVE COMPOSITION FOR COLOR FILTER, PATTERN FORMING METHOD, COLOR FILTER AND METHOD OF PRODUCING THE SAME, AND SOLID-STATE IMAGE SENSOR

(57) Abstract: A colored radiation-sensitive composition for a color filter that includes (A) a pigment, (B) a photopolymerization initiator, and (C) a polymerizable compound, in which the colored radiation-sensitive composition satisfies the following conditions: when a colored radiation-sensitive composition layer is formed from the colored radiation-sensitive composition such that spectral transmittance at 600 nm becomes 30%, the colored radiation-sensitive composition layer includes the following characteristics: (1) spectral transmittance at 400 nm is 20% or less; (2) spectral transmittance at 550 nm is 10% or less; (3) spectral transmittance at 700 nm is 70% or more; (4) a wavelength resulting in 50% spectral transmittance is in a range of from 650 nm to 680 nm; and (5) a film thickness of the colored radiation-sensitive composition layer is in a range of from 0.55 μ m to 1.8 μ m.

