

COLORING COMPOSITION, FILM, COLOR FILTER, PATTERN FORMING METHOD, METHOD OF MANUFACTURING COLOR FILTER, SOLID IMAGE PICKUP ELEMENT, AND INFRARED SENSOR

ABSTRACT

A coloring composition that absorbs visible and near infrared light and transmits infrared light with wavelengths of 1000nm and higher. Said composition comprises colorants and a resin, in which a ratio A/B of a minimum value A of an absorbance in a wavelength range of 400 to 830 nm to a maximum value B of an absorbance in a wavelength range of 1000 to 1300 nm is 4.5 or higher. The invention also includes an infrared filter or infrared sensor wherein a light transmittance in a thickness direction of the film has a maximum value of 20% or lower in a wavelength range of 400 to 830 nm and has a minimum value of 70% or higher in a wavelength range of 1000 to 1300 nm, a solid image pickup element comprising the infrared filter, and a pattern forming method comprising the use of the coloring composition.

None of the fig.