

OPTICAL ELEMENT AND METHOD FOR MANUFACTURING THE SAME

ABSTRACT OF THE DISCLOSURE

An optical element includes: a first optical layer having a concavo-convex surface; a wavelength-selective reflective layer provided on the concavo-convex surface of the first optical layer; a second optical layer provided on the concavo-convex surface on which the wavelength-selective reflective layer is provided so as to fill the concavo-convex surface, and in the optical element described above, the wavelength-selective reflective layer includes a metal layer, a protective layer provided on the metal layer and containing a metal oxide as a primary component, and a high refractive index layer provided on the protective layer and containing a metal oxide other than zinc oxide as a primary component, and the wavelength-selective reflective layer selectively directionally reflects light in a specific wavelength band while transmitting light other than that in the specific wavelength band.

Fig. 1A