

**OPTICAL DEVICE, SUN SCREENING APPARATUS, FITTING, WINDOW
MATERIAL, AND METHOD OF PRODUCING OPTICAL DEVICE**

Abstract of the Disclosure

An optical device includes a shaped layer, an optical function layer, and an embedding resin layer. The shaped layer has a structure forming a concave section. The optical function layer is formed on the structure, and partially reflects incident light. The embedding resin layer is made of energy beam curable resin, the embedding resin layer having a first layer having a first volume, and a second layer formed on the first layer, the second layer having a second volume, the concave section being filled with the first layer, a ratio of the second volume to the first volume being equal to or larger than 5%, the structure and the optical function layer being embedded in the embedding resin layer. In the optical device, at least one of the shaped layer and the embedding resin layer has light transmissive property, and an entrance surface for the incident light.

Fig. 1