

ABSTRACT

[Abstract]

To provide a method for smoothly and easily manufacturing, in a short time, specifically less than one week, artificial teeth using a dental photocurable resin composition without the need for skill, said artificial teeth having excellent strength, wear resistance, hardness, aesthetics, functionality, etc. and low water absorption. [Solution] A method for manufacturing artificial teeth in which: (a) a liquid dental photocurable resin composition, which contains a radical polymerizable organic compound (A), a filler (B) and a light-sensitive radical polymerization initiator (C), is placed in a molding container having an optically-transparent bottom surface, and one cured resin layer is formed by passing light through the optically-transparent bottom surface of the molding container and exposing the dental photocurable resin composition inside the molding container to light according to slice data for each layer based on three-dimensional CAD data for a tooth; (b) the cured resin layer formed in (a) is made to rise one layer only, allowing the dental photocurable resin composition to flow between the bottom surface of the cured resin layer and the bottom surface of the molding container, and then light is passed through the optically-transparent bottom surface of the molding container so as to expose the dental photocurable resin composition between the bottom surface of the cured resin layer and the bottom surface of the molding container to said light according to slice data for each layer based on three-dimensional CAD data for the tooth, forming another cured resin layer; and (c) the operation in (b) is repeated until an artificial tooth is obtained.