

**METHOD AND COMPOSITION PROVIDING DESIRABLE CHARACTERISTICS BETWEEN A
MOLD AND A POLYMERIZABLE COMPOSITION**

Abstract

The present invention provides a method that features improved wetting characteristics while allowing preferential adhesion and release characteristics with respect to a substrate and a mold having imprinting material (50) disposed therebetween. The method includes coating a surface of the mold with a volume of surfactant containing solution (60). The surfactant in the solution includes a hydrophobic component consisting essentially of a plurality of fluorine-containing molecules. The distribution of the plurality of the fluorine atoms in the fluorine-containing molecules, as well as the fluorine-containing molecules throughout the volume provides a desired contact angle with respect to a polymerizable composition disposed (50) on the substrate (42). The contact angle is in a range of 50 degrees or less.

Figure : 6