

ABSTRACT

An ink and dry printing process for the colouring of contact lenses. The binding of colour ink to the lenses is accomplished by the ink, which is composed of acrylic polymer emulsion pigment and a compound containing the functional groups $-\text{CO}_2$, $-\text{CH}_2\text{CH}_2$ and $-\text{OH}$, to be fixed to the nitrogen, and oxygen atoms of a hydrophilic polymer lens by hydrogen bonds and covalent bonds. A dry lens printing for colour modifying contact lens having an iris pattern is described. A simple pattern line's light reflection for a natural appearance when lens hydrated is disclosed.

10

Figure 3