ABSTRACT

A universal impression tray can be reshaped shortened or lengthened allowing a clinician the ability to use one tray in any clinical situation. The tray itself can be used with patients requiring complete removable dentures, root supported and implant-supported overdentures and in some selected dentate cases. The tray can be infinitely modified allowing total control by the clinician. Trays in accordance with features of the present invention are made of a material composition including thermoplastic resin and thermochromic pigment. The material composition softens and changes color in warm water but tends to hold its shape until manipulated by the dentist. The thermoplastic resin portion of the tray can include polycaprolactone resin, styrene resin and dental modeling compound and can vary for specific uses to roughly 50% polycaprolactone/styrene resin and 50% dental modeling compound. Thermochromic pigment can represent up to 5% of the overall material composition of a tray.

10 Claims, 10 Drawing Sheets