

PDF - Fabrication of Dental Wet Curing Units - researchcub.info Denture base materials are used to contact the oral tissues and support artificial teeth

(Powers and Wataha, 2014). Since the 18<sup>th</sup> century, a wide variety of denture materials have been introduced to replace missing teeth and their associated structures. Wax was the first material used for intra-oral impressions and models; then ivory was used by carving it into the required denture shape. However, ivory's hygienic prospect limited its use, and in 1728 Fauchard suggested making dentures from porcelain (Fauchard, 1728), assuming that it could be more attractive and coloured as required as well as more hygienic (Young, 2010). In 1744, Duchateau produced the first recorded porcelain denture (Murray and Darvell, 1993).

In the 1850s, a cheap and easy to handle vulcanite material was identified, and this was used to replace unhygienic costly ivory and porcelain dentures. Vulcanite produced accurately fitting prostheses at reasonable cost, making it accessible to a large number of consumers (Khindria *et al.*, 2009). Vulcanite denture bases were fitted with porcelain teeth requiring mechanical retention due to lack of chemical bonding between the vulcanite denture base material and the porcelain teeth. Techniques were established to improve this bonding by making undercut holes in posterior porcelain teeth and placing pins in anterior teeth (Engelmeier, 2003; Young, 2010). Nonetheless, this material became less satisfactory due to its lack of translucency which affected the aesthetic results; additionally, its porosity had the potential to increase the accumulation of plaque and oral fluids which consequently made the denture base unhygienic (Young, 2010). Many synthetic polymers such as polyamides, epoxy resin, polystyrene, polyvinyl acrylic, rubber graft copolymers, polycarbonate and polymethylmethacrylate have been developed and tested as potential alternative denture base materials (Stafford *et al.*, 1980; Stafford *et al.*, 1986). These are organic molecules of many repeating segments (Powers and Wataha, 2014), but may not generally prove successful since many of them are susceptible to distortion due to water sorption as well as being soluble in most solvents, including chloroform (Van Noort, 2013), although some rubber-reinforced polymers of higher impact strength have been used to reduce the risk of fracture (Powers and Wataha, 2014).

Metals and alloys have been introduced for dental application and used in a number of restorations in dentistry by means of casting techniques (Van Noort, 2013; Powers and Wataha, 2014). Great improvements have been made in the physical and mechanical properties of these base metal alloys and their application could outstrip that of the rarely and costly pure metals (Luthy *et al.*, 1996; Powers and Wataha, 2014). However, for the last two decades their uses have been limited due to their performance or biocompatible risks.

## **Fabrication of Dental Wet Curing Units**

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