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(54) Title: ONE-POT GRAFTING OF POLYMERS FROM ALCOHOLS AND BIOMASSES

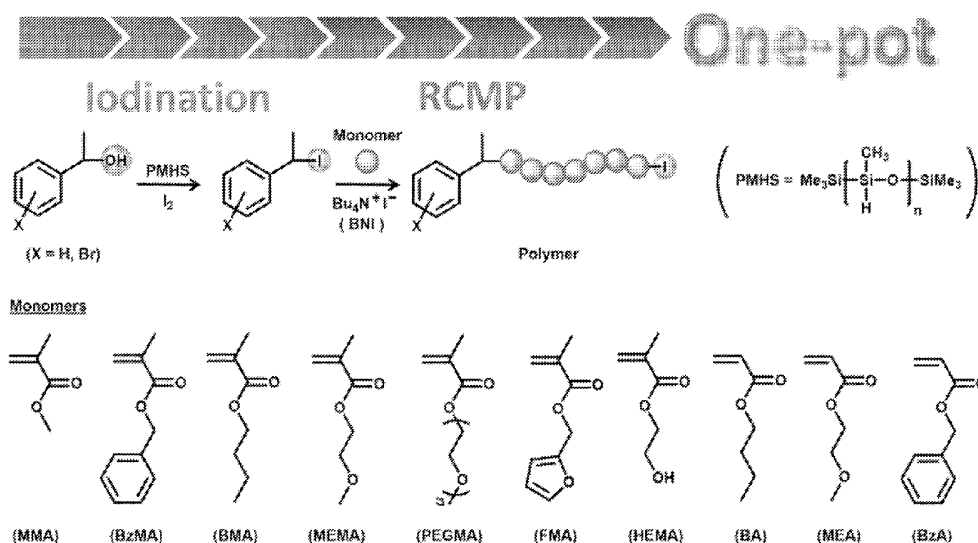


Fig. 1

(57) Abstract: Disclosed herein is a process to form a polymeric material, the process comprising the steps of: (a) providing a substrate having one or more alcohols and converting at least one of the one or more alcohols to an iodide group to provide a modified substrate; (b) mixing the modified substrate with a first monomer and a first catalyst to provide a first mixture, and subjecting the first mixture to reaction conditions that provide a first polymeric or oligomeric material formed from the first monomer, wherein: the modified substrate acts as an initiator for polymerisation and provides a terminal group in at least one part of the first polymeric or oligomeric material; and the reaction conditions comprise an elevated temperature.

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