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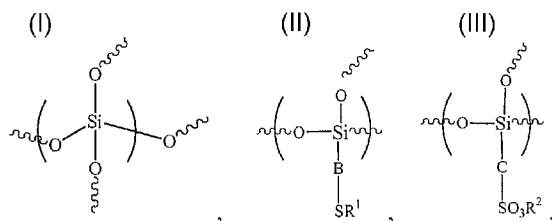
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(54) Title: FUNCTIONALIZED ZEOLITE COMPOSITIONS AND METHODS FOR THEIR PREPARATION AND USE



(57) Abstract: Disclosed herein are zeolite compositions comprising structural units of the formulae: Formula (I), (II), (III) wherein "B" and "C" are spacer groups comprising C₂ to C₂₀ hydrocarbyl groups; and R¹ and R² independently of each other comprise alkali metal, hydrogen, or C₁ to C₂₀ alkyl groups. The zeolite compositions further comprise structural units derived from a heteropolyacid compound of the formula: (M³)₃(M⁴)(M⁵)₁₂O₄₀; where M³ comprises hydrogen or an alkali metal; M⁴ comprises phosphorus or silicon, and M⁵ comprises tungsten or molybdenum. Methods for preparing these zeolite compositions are also disclosed. The zeolite compositions are useful as catalysts for producing bisphenols.



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