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(54) Title: PREPARATION OF FUNCTIONALISED POLYETHERS			
(57) Abstract			
Unique, well defined polyethers containing both hydroxyl-functionality and unsaturation-functionality are prepared by oxyalkylating an unsaturated monomer having at least one oxyalkylatable hydrogen in the presence of an effective amount of a double metal cyanide complex catalyst, optionally, when necessary, in the presence of a free radical polymerization inhibitor. The resulting polyethers are eminently suitable for such uses as polymer polyol stabilizers or stabilizer precursors, and both <i>in situ</i> and <i>ex situ</i> impact modifiers for thermoplastics. Unique, well defined macromonomers containing hydroxyl-functionality, unsaturation-functionality, and polyoxyalkylene segments are prepared by oxyalkylating an unsaturated initiator molecule having at least one oxyalkylatable hydrogen in the presence of an effective amount of a double metal cyanide complex catalyst, optionally, when necessary, in the presence of a free radical polymerization inhibitor. The resulting unsaturated macromonomers are eminently suitable for such uses as copolymerization with ethylenically unsaturated monomers containing carboxylic acid-based groups such as acrylic acid to form effective superplasticizers and water reducers for cement and concrete applications.			