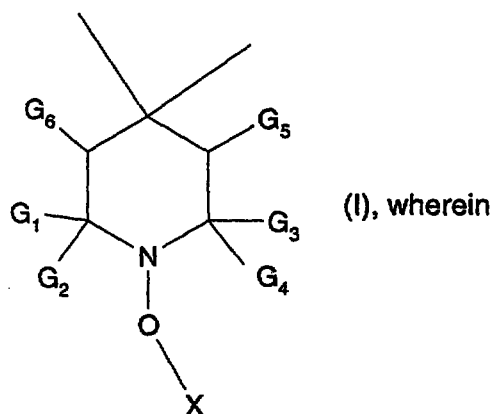
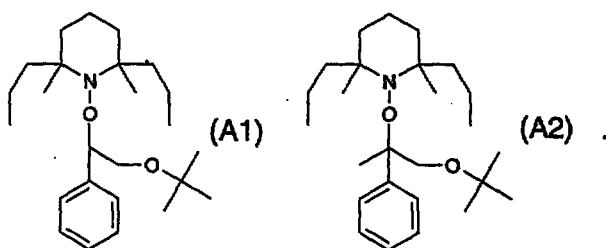


Abstract

The present invention relates to 1-alkoxy-polyalkyl-piperidine derivatives containing a structural element of formula (I)



G_1, G_2, G_3, G_4 are independently C_1 - C_6 alkyl with the proviso that at least one is not methyl or G_1 and G_2 or G_3 and G_4 , or G_1 and G_2 and G_3 and G_4 together form a C_5 - C_{12} cycloalkyl group; G_5, G_6 independently are H, C_1 - C_{18} alkyl, phenyl, naphthyl or a group $COOC_1$ - C_{18} alkyl and X represents a group such that the free radical $X\cdot$ derived from X is capable of initiating polymerization of ethylenically unsaturated monomers, with the proviso that compounds A1 and A2 are excluded



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Further subjects of the invention are a polymerizable composition comprising a) at least one ethylenically unsaturated monomer and b) a 1-alkoxy-polyalkyl-piperidine derivative, a process for polymerizing ethylenically unsaturated monomers, and the use of 1-alkoxy-polyalkyl-piperidine derivatives for controlled polymerization. The intermediate N-oxyl derivatives, a composition of the N-oxyl derivatives with ethylenically unsaturated monomers and a free radical initiator $X\cdot$, as well as a process for polymerization are also subjects of the present invention.