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(71) Applicant (for all designated States except US): **BRIDGE-STONE CORPORATION** [JP/JP]; 10-1, Kyobashi 1-Chome, Chuo-ku, Tokyo, Japan 104-8340 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **YAN, Yuan-yong** [CN/US]; 613 Redfield Lane, Copley, OH 44321 (US).

(74) Agent: **WOOD, Jon**; Bridgestone Americas Holding, Inc., 1200 Firestone Parkway, Akron, OH 44317, (US).

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(54) Title: SYNTHESIS OF A LIQUID POLYMER AND A FUNCTIONALIZED POLYMER

(57) Abstract: ABSTRACT [0054] A method comprising: (a) forming a living liquid polymer, wherein said living liquid polymer is anionically initiated and comprises a cation; (b) adding a functional initiator precursor of the formula FI-H, wherein H is hydrogen and FI is a functional group, said H terminates said living liquid polymer resulting in said liquid polymer having a number average molecular weight of about 20,000 (g/mole) to about 100,000 (g/mole), and said FI and said cation form a functional initiator; (c) adding monomer, wherein said functional initiator initiates anionic polymerization of said monomer; and (d) terminating the polymerization reaction initiated in step (c). Steps (a) through (c) may be conducted in a single reactor, allowing a liquid polymer to be dispersed in a functionalized polymer in a single polymerization step. Thus, the liquid polymer does not have to be handled separately and processing efficiency is improved.



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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKIPASS, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US6437205 B1 (Bridgestone Corporation) 20 Aug. 2002 Abstract; Claims 1, 36-49	15-30
A	US3933574 A (Zinoviev, Alexandr Fedorovich et al.) 20 Jan. 1976 Whole document	1-30
A	WO93/5083 A1 (Enichem Elastomers Ltd. et al.) 18 Mar. 1993 Whole document	1-30
A	JP08-073515 A (Ube Ind. Ltd.) 19 Mar. 1996 Whole document	1-30
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Information on patent family members

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