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(54) Title: METHOD OF POLYMER BODYING TO OBTAIN INSTANT SEALING OF FORM-IN-PLACE ENGINE GAS-
KETING SEALANTS

(57) Abstract: The present invention provides methods of preparing reactive compositions that have instant sealability. More specifically, in the methods of the present invention, a hydroxy-functionalized polydiorganosiloxane is reacted with a C1 tri-functional silane to form a chain-extended polyorganosiloxane. The chain-extended polyorganosiloxane then is reacted with a moisture-curable silane to end-cap the polyorganosiloxane with moisture curing groups. The present invention also provides methods of forming gasket assemblies and methods of sealing substrates together using the reactive compositions.



WO 2009/085183 A3

A. CLASSIFICATION OF SUBJECT MATTER*C08L 83/04(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 8 : C08L 83/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & keywords: hydroxy terminated polydimethylsiloxane, catalyst, silane

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/0123640 A1 (Robert P. Cross et al.) 31 May 2007 See the abstract; the description paragraphs [0002], [0003], [0011] to [0013], [0042] to [0044], [0073] to [0085], [0087] to [0107]; and the claims.	1-16
X	US 2005/0267276 A1 (Hsien-Kun Chu) 01 Dec. 2005 See the abstract; the description paragraphs [0064] to [0076], [0081], [0082], [0087]; and the claims.	1-16
X	WO 1992/07027 A1 (Bayer A.G.) 30 April 1992 See the abstract; page 3; and claim 1.	1-16
A	US 2007/0232729 A1 (Christoph Briehn et al.) 04 Oct. 2007 See the abstract; the description paragraphs [0028], [0047], [0060]; and the claims.	1-16
A	US 2006/0194707 A1 (Zheng Lu) 31 Aug. 2006 See the abstract; the description paragraphs [0011], [0028], [0036], [0041], [0042], [0046] to [0049]; and the claims.	1-16
A	US 5,331,074 A (William W. Slater et al.) 19 Jul. 1994 See the abstract; col. 5 lines 15-33, col. 6 lines 57-67, col. 8 lines 1-10; and the claims.	1-16



Further documents are listed in the continuation of Box C.



See patent family annex.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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