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(54) Title: METHOD OF PREPARING RUBBER COMPRISING POLYMERIC COMPOSITIONS AND ISOPRENE COMPRISING INTERPOLYMERS

(57) Abstract: A process for preparing a rubber comprising polymeric composition, and the resulting compositions, and certain isoprene comprising interpolymers.



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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/026221

A. CLASSIFICATION OF SUBJECT MATTER INV. C08F287/00 C08L51/00 C08L55/02		
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) C08F C08L		
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 practical, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 732 345 A (ENICHEM SPA [IT]) 18 September 1996 (1996-09-18) page 3, line 37 - line 43 page 4, line 1 - line 5 page 4, line 57 - line 59 page 5, line 14 - line 19; claims	1-22
X	EP 0 629 658 A (ENICHEM SPA [IT]) 21 December 1994 (1994-12-21) page 3, line 20 - line 24 page 3, line 52 - page 4, line 6 page 4, line 21 - line 23 page 5, line 13 - line 18; claims	1-22
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		
<input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents :		
A document defining the general state of the art which is not considered to be of particular relevance	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
E earlier document but published on or after the international filing date	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.	
O document referring to an oral disclosure, use, exhibition or other means	*&* document member of the same patent family	
P document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search <p style="text-align: center;">30 April 2008</p>	Date of mailing of the international search report <p style="text-align: center;">17/09/2008</p>	
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <p style="text-align: center;">Iraegui Retolaza, E</p>	

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/026221

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 027 800 A (SHEU HRONG-ROANG [US]) 22 February 2000 (2000-02-22) column 2, line 58 - line 62 column 3, line 5 - line 15 column 3, line 30 - line 49 column 6, line 16 - line 24; claim 19	1-22
P, X	US 2007/225440 A1 (SOSA JOSE M [US] ET AL) 27 September 2007 (2007-09-27) paragraphs [0018] - [0021]; claims	1-22

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/026221

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-22

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-22

A method for forming a rubber-comprising polymeric composition, comprising polymerizing vinyl aromatic monomer and an interpolymer comprising one or more mer units deriving from isoprene according to claims 1 to 17, a rubber comprising thermoplastic composition comprising a thermoplastic polymer phase comprising one or more polymers having mer units deriving from the polymerization of vinyl aromatic monomer and an interpolymer comprising one or more mer units deriving from the polymerization of isoprene according to claim 18, a composition comprising a polystyrene or interpolymer comprising mer units deriving from the polymerization of styrene and an interpolymer comprising one or more mer units deriving from the polymerization of isoprene according to claim 19 and an acrylonitrile-butadiene-styrene composition comprising an interpolymer comprising mer units deriving from the polymerization of styrene and acrylonitrile and an interpolymer comprising units deriving from the polymerization of butadiene and isoprene according to claims 20 to 22.

2. claim: 23 and 24

An interpolymer comprising blocks of butadiene and blocks of isoprene according to claims 23 and 24.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/026221

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0732345	A	18-09-1996 IT MI950505 A1	16-09-1996
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