

(12) SOLICITUD INTERNACIONAL PUBLICADA EN VIRTUD DEL TRATADO DE COOPERACIÓN
EN MATERIA DE PATENTES (PCT)

(19) Organización Mundial de la Propiedad
Intelectual
Oficina internacional



(43) Fecha de publicación internacional
2 de Noviembre de 2000 (02.11.2000)

PCT

(10) Número de Publicación Internacional
WO 00/65554 A3

(51) Clasificación Internacional de Patentes⁷:
C08F 279/02, C08J 5/24

(21) Número de la solicitud internacional: PCT/IB00/00529

(22) Fecha de presentación internacional:
26 de Abril de 2000 (26.04.2000)

(25) Idioma de presentación: español

(26) Idioma de publicación: español

(30) Datos relativos a la prioridad:
993878 26 de Abril de 1999 (26.04.1999) MX

(71) Solicitante (para todos los Estados designados salvo US):
PLASTIGLAS DE MEXICO, S.A. DE C.V. [MX/MX];
Frente a la estación del F.F.C.C., Maclovio Herrera,
Ocoyoacac, México 52740 (MX).

(72) Inventores; e

(75) Inventores/Solicitantes (para US solamente): **COLIN ESCOBAR, Sergio** [MX/MX]; Frente a la estación del F.F.C.C., Maclovio Herrera, Ocoyoacac, México 52740 (MX). **AHUMADA ROMERO, Manuel** [MX/MX]; Frente a la estación del F.F.C.C., Maclovio Herrera, Ocoyoac, 52740 (MX). **PEÑA ROSAS, Jose, Luis** [MX/MX]; Frente a la estación del F.F.C.C., Maclovio

Herrera, Ocoyoacac, México 52740 (MX). **LIMON RODRIGUEZ, Mariá Sonia** [MX/MX]; Frente a la estación del F.F.C.C., Maclovio Herrera, Ocoyoacac, México 52740 (MX). **MILLE LOERA, Luis Enrique** [MX/MX]; Frente a la estación del F.F.C.C., Maclovio Herrera, Ocoyoacac, México 52740 (MX). **VILCHIS RAMIREZ, Leopoldo** [MX/MX]; Frente a la estación del F.F.C.C., Maclovio Herrera, Ocoyoacac, México 52740 (MX).

(74) Mandatario: **ESTEVA, Miguel A.**; Avenida Revolución 1392, Colonia Guadalupe Inn, 2° piso, México, D.F. 01020 (MX).

(81) Estados designados (nacional): CA, ES, GB, US.

(84) Estados designados (regional): patente europea (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Publicada:

— con informe de búsqueda internacional

(88) Fecha de publicación del informe de búsqueda internacional: 9 de Agosto de 2001

Para códigos de dos letras y otras abreviaturas, véase la sección "Guidance Notes on Codes and Abbreviations" que aparece al principio de cada número regular de la Gaceta del PCT.

(54) Title: PROCEDURE FOR THE OBTAINMENT OF MODIFIED ACRYLIC SHEETS OF HIGH IMPACT RESISTANCE

(54) Título: PROCEDIMIENTO PARA LA OBTENCION DE LAMINA ACRILICA MODIFICADA DE ALTA RESISTENCIA AL IMPACTO

(57) Abstract: The invention relates to a method for obtaining a modified high impact resistant acrylic sheet by prepolymerizing a monomer mix with a diluted dienic monomeric polymer, which is carried out in batches at low temperatures without separating the dienic monomeric polymer from the rest of the mix. The method disclosed in the invention makes it possible to obtain a modified high impact resistant acrylic sheet whose transmittance is maintained after being subjected to accelerated degradation and whose impact resistance properties are preserved by more than 50 % after said accelerated degradation.

(57) Resumen: Se describe un procedimiento para la obtención de una lámina acrílica modificada de alta resistencia al impacto del tipo que comprende prepolimerizar una mezcla de monómeros con un polímero de monómero diénico disuelto, lo cual se realiza por lotes a temperaturas bajas sin que exista una separación del polímero de monómero diénico del resto de la mezcla. El procedimiento de la presente invención permite obtener una lámina acrílica modificada de alta resistencia al impacto cuya transmitancia se mantiene después de someterse a degradación acelerada, y cuyas propiedades de impacto no se pierden en más del 50 % después de dicha degradación acelerada.

WO 00/65554 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 00/00529

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C08F279/02 C08J5/24

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 7 C08F C08J

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)

WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 1 302 069 A (DOW CHEMICAL) 4 January 1973 (1973-01-04) page 2, line 107 -page 3, line 74 ---	1
A	DATABASE WPI Section Ch, Week 199807 Derwent Publications Ltd., London, GB; Class A13, AN 1998-071896 XP002159516 & JP 09 309934 A (NIPPON STEEL CHEM CO), 2 December 1997 (1997-12-02) abstract ---	1
A	GB 1 030 497 A (STERLING MOULDING MATERIALS LIMITED) 25 May 1966 (1966-05-25) example 1 --- -/-	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

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)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

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

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

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.

& document member of the same patent family

Date of the actual completion of the international search

6 February 2001

Date of mailing of the international search report

26/02/2001

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

Meulemans, R

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 00/00529

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4 287 317 A (KITAGAWA YOSHIHIKO ET AL) 1 September 1981 (1981-09-01) cited in the application the whole document -----</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 00/00529

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 1302069 A	04-01-1973	BE 747797 A	23-09-1970
		CA 956400 A	15-10-1974
		DE 2013468 A	08-10-1970
		FR 2037866 A	31-12-1970
		JP 49015632 B	16-04-1974
		NL 7003367 A	28-09-1970
JP 9309934 A	02-12-1997	NONE	
GB 1030497 A		NONE	
US 4287317 A	01-09-1981	JP 1406354 C	27-10-1987
		JP 55147514 A	17-11-1980
		JP 62013968 B	30-03-1987
		AU 534469 B	02-02-1984
		AU 5768880 A	30-10-1980
		CA 1137681 A	14-12-1982
		DE 3070878 D	22-08-1985
		EP 0019372 A	26-11-1980