

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 October 2001 (04.10.2001)

PCT

(10) International Publication Number
WO 01/72912 A3

(51) International Patent Classification⁷: C09D 5/00,
5/02, C09K 3/30

(21) International Application Number: PCT/BR01/00031

(22) International Filing Date: 30 March 2001 (30.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PI 0002743-0 31 March 2000 (31.03.2000) BR
PI 0004962-0 20 October 2000 (20.10.2000) BR

(71) Applicant (for all designated States except US):
**CHEMIKER DO BRASIL PRODUTOS AUTO-
MOTIVOS LTDA.** [BR/BR]; Avenida das Palmeiras,
1563, CEP-84130-000 Palmeiras, PR (BR).

(71) Applicant and

(72) Inventor: **VILARINHO DIAS, Heine, Allemagne**
[BR/BR]; Rua 28 c/11 e 13, 561, CEP-Ituitaba, MG (BR).

(74) Agent: **DANNEMANN, SIEMSEN, BIGLER &
IPANEMA MOREIRA**; Caixa Postal 2142, Rua Marquês
de Olinda, 70, Botafogo, CEP-22251-040 Rio de Janeiro,
RJ (BR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to the identity of the inventor (Rule 4.17(i)) for all des-
ignations

Published:

— with international search report

(88) Date of publication of the international search report:
4 April 2002

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: FOAMING AQUEOUS COMPOSITION, USE THEREOF AND PROCESS FOR TEMPORARY DEMARCATION OF REGULATION DISTANCES IN SPORTS

(57) Abstract: The object of the present invention is to provide a foaming aqueous composition to temporarily mark and delimit regulation distances on courts and fields of sports, suitable for use in sport matches and competitions in which it is required to momentarily delimit distances, by means of a quick application, without any injuries on the place where the competition is occurring, ensuring the compliment with the rules and conditions of the matches, avoiding any doubts or discussions related to the placing of the competitors concerning the minimal distances to be respected. The present invention also refers to the use of this composition for marking and delimiting regulation distances on courts and fields of sports, in particular on soccer fields. Another object of the present invention consists of a process for temporary demarcation of regulation distances in sports, comprising the step of spraying on a place of a court or field of sports a foaming aqueous composition of the present invention.



WO 01/72912 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/BR 01/00031

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C09D5/00 C09D5/02 C09K3/30

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 C09D C09K

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, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | PATENT ABSTRACTS OF JAPAN vol. 1997, no. 04, 30 April 1997 (1997-04-30) & JP 08 319212 A (KANEBO LTD), 3 December 1996 (1996-12-03) abstract --- | 1,9 |
| X | DATABASE WPI Section Ch, Week 199503 Derwent Publications Ltd., London, GB; Class A96, AN 1995-019164 XP002178053 & JP 06 305934 A (POLA CHEM IND INC), 1 November 1994 (1994-11-01) abstract --- -/-- | 1-3,15, 16 |

☒ 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.

G document member of the same patent family

Date of the actual completion of the international search

21 September 2001

Date of mailing of the international search report

16/10/2001

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

Miller, A

INTERNATIONAL SEARCH REPORT

Int. Application No

PCT/BR 01/00031

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|----------------------------|
| X | <p>US 5 888 478 A (MAURIN VERONIQUE) 30 March 1999 (1999-03-30) column 1, line 20-30 column 3, line 10-23 column 3, line 25-47 column 3, line 64 -column 4, line 19 column 5, line 59 -column 6, line 5 Examples -----</p> | <p>1,5,6,9, 10,15</p> |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/BR 01/00031

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| JP 08319212 | A | 03-12-1996 | NONE | |
| JP 6305934 | A | 01-11-1994 | NONE | |
| US 5888478 | A | 30-03-1999 | FR 2745496 A1 | 05-09-1997 |
| | | | AT 165731 T | 15-05-1998 |
| | | | BR 9702102 A | 20-07-1999 |
| | | | CA 2217289 A1 | 04-09-1997 |
| | | | CN 1180307 A | 29-04-1998 |
| | | | DE 69700006 D1 | 10-06-1998 |
| | | | DE 69700006 T2 | 20-08-1998 |
| | | | EP 0792632 A1 | 03-09-1997 |
| | | | ES 2116818 T3 | 16-07-1998 |
| | | | WO 9731615 A1 | 04-09-1997 |
| | | | JP 2988730 B2 | 13-12-1999 |
| | | | JP 10506654 T | 30-06-1998 |
| | | | KR 241586 B1 | 01-04-2000 |
| | | | PL 323179 A1 | 16-03-1998 |