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- (74) Agent: **SCHALKWIJK, Pieter, Cornelis**; Akzo Nobel N.V., Dept. AIP, Velperweg 76, NL-6824 BM Arnhem (NL).

(54) Title: WATER BORNE COATING COMPOSITION FOR FILM TRANSFER AND CASTING PROCESS

(57) Abstract: The present invention relates to a coating composition that can be used in a process for coating a substrate where in a first step a radiation curable coating composition is applied to the substrate and/or a radiation permeable film, and in a subsequent step the substrate and the film are pressed together in such a way that the coating composition is sandwiched between them, thereafter the coating composition is cured by irradiation through the film to obtain a coated substrate, and then the transparent film is removed from the coated substrate, wherein the coating composition that is applied to the film and/or the substrate is a radiation curable water borne coating composition comprising a radiation curable resin or a mixture of radiation curable resins.



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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/02297

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 B05D1/40 B05D3/06 B05D1/28				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 B05D				
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				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	WO 80 01472 A (SICPA HOLDING SA ;AMON A (CH)) 24 July 1980 (1980-07-24) cited in the application page 4, line 1 - line 6 figures 1,2,4 claims 1,3 examples	1-11		
Y	--- WO 94 29398 A (DSM NV ;WESTERHOF HENK (NL); WEHMAN ERIK (NL); RIETBERG JOHAN (NL)) 22 December 1994 (1994-12-22) page 7, line 29 - line 33 examples 4,5 claim 1 ---	1-11		
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <span style="margin-left: 200px;"><input checked="" type="checkbox"/> Patent family members are listed in annex.</span>				
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<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;">                     *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                 </td> <td style="width: 50%; border: none; vertical-align: top;">                     *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.                      *&amp;* document member of the same patent family                 </td> </tr> </table>			*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
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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	Slembrouck, I			

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A	DE 44 21 559 A (ZELLER & GMELIN GMBH & CO ;OSMETRIC ENTWICKLUNGS UND PROD (DE)) 21 December 1995 (1995-12-21) page 1, line 67 -page 2, line 22 claims figures -----	
A	WO 90 15673 A (GEN ELECTRIC) 27 December 1990 (1990-12-27) claims 1,5,13,14,16 figures 1,2 -----	
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A	US 5 773 126 A (NAKAI YASUO ET AL) 30 June 1998 (1998-06-30) example A1 -----	

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			KR 215330 B1	16-08-1999
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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B05D

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

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Patent family members are listed in annex.

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15 December 2003	22/12/2003
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  Slembrouck, I

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