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(71) Applicant: E.I. DU PONT DE NEMOURS AND COM-PANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US).

(72) Inventor: FRANKE, Mark, Douglas; 801 Half Mile Way, Greenville, SC 29609 (US).

(74) Agents: GOLIAN, Andrew, G. et al.; E.I. du Pont de Nemours and Company, Legal/Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).

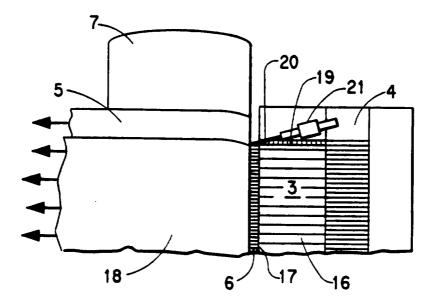
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(54) Title: BEAD EDGE GUIDE FOR USE IN SLIDE-BEAD COATING



#### (57) Abstract

An apparatus for controlling the bead edge in slide-bead coating is disclosed employing bead edge guides (20) in a gap between a coating lip (17) and a moving substrate (18). The apparatus provides for improved coating quality and less material loss typically observed with increased line speeds.

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 92/04696

I. CLASSIFICATION OF	SUBJECT MATTER (if several classification s	symbols apply, indicate all) <sup>6</sup>	
According to International Int.Cl. 5 805CS	Patent Classification (IPC) or to both National C 5/00; G03C1/74	Classification and IPC	
II. FIELDS SEARCHED			
	Minimum Docum	entation Searched?	
Classification System		Classification Symbols	
Int.Cl. 5	B05C ; G03C		
		than Minimum Documentation are included in the Fields Searched <sup>8</sup>	
	IDERED TO BE RELEVANT	ing of the selection of	Relevant to Claim No. <sup>13</sup>
Category Citatio	n of Document, 11 with indication, where appropri	iate, of the relevant passages	Kaevant to Claim No.13
29 0	A,0 018 029 (AGFA-GEVAERT) October 1980 the whole document		1
12 3	A,4 933 215 (NARUSE ET AL)  June 1990  column 3, line 10 - line 1	13; figure 1	1
"E" earlier document is filing date "L" document which is cited to escitation or other sy "O" document referring other means	the general state of the art which is not f particular relevance ut published on or after the international ay throw doubts on priority claim(s) or stablish the publication date of another ecial reason (as specified) g to an oral disclosure, use, exhibition or d prior to the international filing date but	"T" later document published after the interna or priority date and not in conflict with th cited to understand the principle or theory invention  "X" document of particular relevance; the clair cannot be considered novel or cannot be involve an inventive step  "Y" document of particular relevance; the clair cannot be considered to involve an inventi- document is combined with one or more o ments, such combination being obvious to in the art.  "&" document member of the same patent fam	e application but r underlying the med invention med invention med invention rve step when the ther such docu- a person skilled
IV. CERTIFICATION			
•	tion of the International Search  OVEMBER 1992	Date of Mailing of this International Sear	ch Report 3, 12, 92
International Searching Au EUI	thority ROPEAN PATENT OFFICE	Signature of Authorized Officer  JUGUET J.M.	

#### ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO. US 9204696 SA

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP-A-0018029	29-10-80	CA-A- JP-C- JP-A- JP-B- US-A-	1140001 1567743 55139865 63032511 4313980	25-01-83 10-07-90 01-11-80 30-06-88 02-02-82
US-A-4933215	12-06-90	JP-A-	63042771	23-02-88