United States Patent [19] Bayerlein et al.			[11]	Patent I	Number:	4,645,833	
			[45]	Date of	Patent:	Feb. 24, 1987	
	BORATE-SWATER-S	FOR THE PREPARATION OF CONTAINING, DISPERSIBLE, COLUBLE LACTOMANNANS	3,891,621 6/1975 Arthur, Jr. et al				
[75]	Inventors:	Friedrich Bayerlein; Peter-Paul Habereder, both of Krailling; Nikolaos Keramaris, Eichenau; Nikolaus Kottmair, Gauting; Manfred Kuhn, Munich, all of Fed. Rep. of Germany	der, both of Krailling; be Keramaris, Eichenau; us Kottmair, Gauting; def Kuhn, Munich, all of Fed. 4,269,975 4,276,414 6/1981 7 ess 4,292,212 9/1981 Melt 4,368,324 1/1983 Baye				
	Assignee:	Sherex Chemical Co., Inc., Dublin, Ohio	[57] ABSTRACT Method for preparation of dispersible, water-soluble polygalactomannan and polygalactomannan deriva				
[22]	Appl. No. Filed:	Sep. 21, 1982	ep. 21, 1982 tives by crosslinking with borate ions, in which polygalactomannan-containing endosperm of legular				
[30] Sep.	[30] Foreign Application Priority Data Sep. 22, 1981 [DE] Fed. Rep. of Germany 3137537			material containing borate ions in which the concentra- tion of the borate ions, expressed as borax, is between			
[51] [52]	Int. Cl. ⁴ U.S. Cl		0.001 an	0.001 and 0.09 wt % and the hydroxyl ion concentra- tion, expressed as NaOH, is between 0.2 and 10 wt % of the polygalactomannan and after taking up the solution,			
[58]	Field of S	earch 536/114, 121, 17.1, 536/18.5, 18.3, 114, 121	the cell structure of the splits is mechanically destroyed using high shear forces in a flaking, crushing or extruder process and then the product of the process is dried and				
[56]	U.S.	References Cited PATENT DOCUMENTS	ground	ground in known fashion.			
2		/1953 Frisch et al 536/114		6 Cla	aims, No Dra	wings	