United States Patent [19] 4,713,448 Patent Number: Date of Patent: Dec. 15, 1987 Balazs et al. 4,303,676 12/1981 Balazs 514/777 4,487,865 12/1984 Balazs et al. 525/54.2 4,500,676 2/1985 Balazs et al. 524/29 4,517,295 5/1985 Bracke et al. 536/55.1 4,582,865 4/1986 Balazs et al. 524/27 4,605,691 8/1986 Balazs et al. 524/27 4,629,623 12/1986 Balazs et al. 424/63 Primary Examiner-Ronald W. Griffin

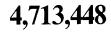
Attorney, Agent, or Firm-Sheldon Palmer [57] ABSTRACT

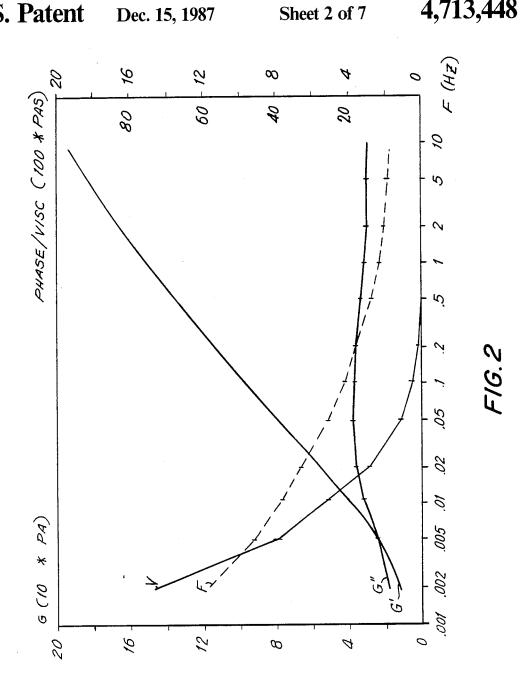
Disclosed is hylan, a chemically modified hyaluronic acid preparation characterized by the presence of small amounts (0.005-0.05% by weight) of aldehyde crosslinking groups covalently bonded to the hyaluronic acid molecular chains. Also disclosed is a method of obtaining hylan comprising treating hyaluronic acid in situ in animal tissues containing same with a treatment mixture including a reagent (typically an aldehyde) which is reactive towards hyaluronic acid and the proteins contained in the animal tissue.

27 Claims, 8 Drawing Figures

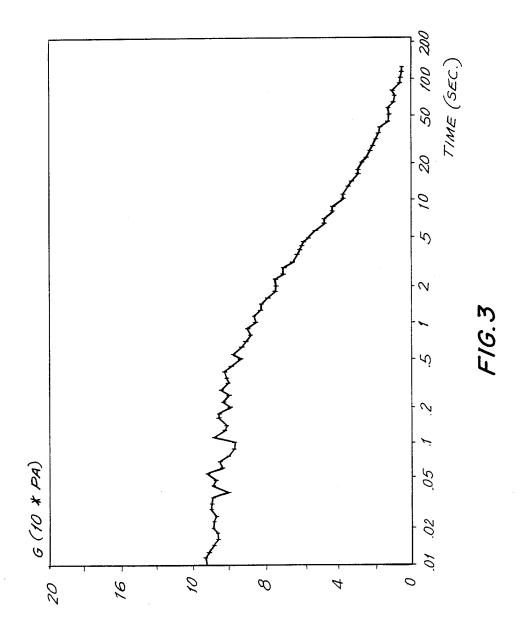
[54]	CHEMICALLY MODIFIED HYALURONIC ACID PREPARATION AND METHOD OF RECOVERY THEREOF FROM ANIMAL TISSUES	
[75]	Inventors:	Endre A. Balazs, Ft. Lee; Adolf Leshchiner; Adelya Leshchiner, both of Fairview, all of N.J.; Philip Band Brooklyn, N.Y.
[73]	Assignee:	Biomatrix, Inc., Ridgefield, N.J.
[21]	Appl. No.:	710,929
[22]	Filed:	Mar. 12, 1985
[51]	Int. Cl.4	C08B 37/08; C08F 8/00; C12P 19/04; C12R 1/46
[52]	U.S. Cl	536/55.1; 435/267
[58]		
[56] References Cited		
	U.S. I	PATENT DOCUMENTS
:	3,396,081 8/1	1968 Billek 536/55.1
4	1,141,973 2/1	1979 Balazs 514/769
,	1272 522 6/1	091 Release 474/94

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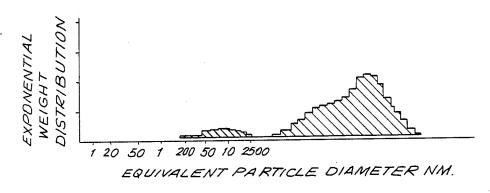
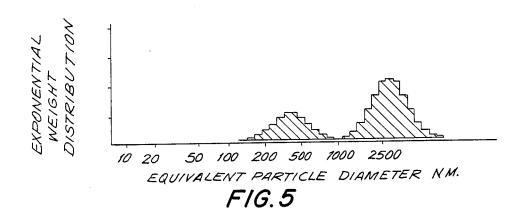


FIG. 4





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