United States Patent [19]

Balazs et al.

[11] **Patent Number: 4,582,865**

[45] **Date of Patent: Apr. 15, 1986**

[54] **CROSS-LINKED GELS OF HYALURONIC ACID AND PRODUCTS CONTAINING SUCH GELS**

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[21] Appl. No.: **678,895**

[22] Filed: **Dec. 6, 1984**

[51] **Int. Cl.**[4] **C08F 8/00**

[52] **U.S. Cl.** **524/29**; 536/4.1; 524/27; 514/781

[58] **Field of Search** 524/27, 29; 536/4.1

[56] **References Cited**

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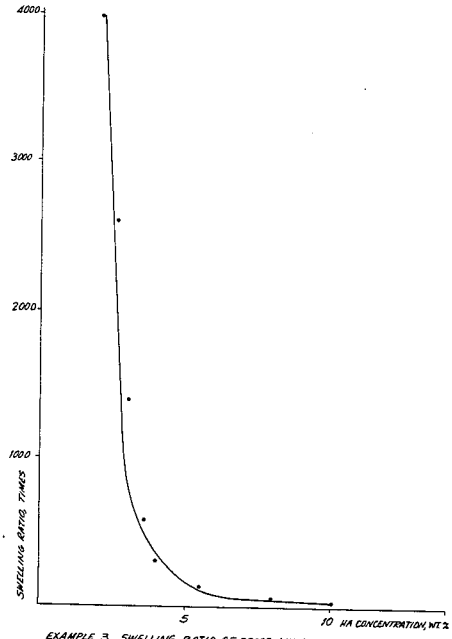
[57] **ABSTRACT**

Disclosed are cross-linked gels of hyaluronic acid, alone or mixed with other hydrophilic polymers and containing various substances or covalently bonded low molecular weight substances and processes for preparing them. These products are useful in numerous applications including cosmetic formulations and as drug delivery systems.

28 Claims, 2 Drawing Figures



EXAMPLE 3. SWELLING RATIO OF CROSS-LINKED HA GELS AT DIFFERENT CONCENTRATIONS OF HA IN STARTING SOLUTIONS (HA/DVS WEIGHT RATIO ABOUT 1:1, ROOM TEMPERATURE, 1 HOUR).