

- [54] **ELECTRICALLY CONDUCTIVE, VISCO-ELASTIC GEL AND ITS USE IN ELECTRODE**
- [75] Inventors: **Werner Karmann; Gerd Weidehaas; Bernd Höwe; Frank Piel**, all of Hamburg, Fed. Rep. of Germany
- [73] Assignee: **Beiersdorf Aktiengesellschaft**, Hamburg, Fed. Rep. of Germany
- [21] Appl. No.: **93,256**
- [22] Filed: **Nov. 13, 1979**

Related U.S. Application Data

- [63] Continuation-in-part of Ser. No. 912,638, Jun. 5, 1978, abandoned.

Foreign Application Priority Data

- Jun. 18, 1977 [DE] Fed. Rep. of Germany 2727396
- [51] Int. Cl.³ **H01B 5/16; H01B 1/20; H01B 17/64; A61B 5/04**
- [52] U.S. Cl. **128/639; 106/208; 128/803; 252/316; 252/500; 252/518**
- [58] Field of Search **252/316, 518, 500; 128/803, 639, 640; 106/208**

[56] **References Cited**

U.S. PATENT DOCUMENTS

2,439,460	4/1948	Engler	106/208
2,555,037	5/1951	Jensen	252/518 X
3,048,549	8/1962	Adams	252/518
3,567,657	3/1971	Lichtenstein	252/521 X
3,658,726	4/1972	Mühl	252/316-X
3,665,064	5/1972	Mosier et al.	252/514 X

Primary Examiner—Richard D. Lovering
Attorney, Agent, or Firm—Bierman & Bierman

[57] **ABSTRACT**

A visco-elastic gel comprising a high molecular weight polysaccharide, at least one polyol and, optionally, at least one non-volatile acid soluble in the polyol and at least one non-volatile base soluble in the polyol. The polyol has a water content of 5 to 20 percent by weight and the various components set forth are physiologically acceptable. The gel is particularly suitable as a means for releasably securing an electrode to the skin as, for example, when taking an EEG or EKG. Methods of making a suitable electrode and using it are also disclosed.

3 Claims, No Drawings