

# United States Patent [19]

Moore

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- [54] **PREPARATION OF A GEL HAVING GAS TRANSPORTING CAPABILITY**
- [75] Inventor: **Robert E. Moore**, Wilmington, Del.
- [73] Assignee: **Adamantech, Inc.**, Linwood, Pa.
- [ \* ] Notice: The portion of the term of this patent subsequent to Feb. 11, 2003 has been disclaimed.
- [21] Appl. No.: **777,798**
- [22] Filed: **Sep. 19, 1985**

### Related U.S. Application Data

- [63] Continuation of Ser. No. 313,124, Oct. 20, 1981, Pat. No. 4,569,784, which is a continuation-in-part of Ser. No. 209,238, Nov. 17, 1980, abandoned.

- [51] Int. Cl.<sup>4</sup> ..... **B01J 13/00**
- [52] U.S. Cl. .... **252/315.1; 252/312; 252/314; 514/756; 514/789; 514/944; 514/969**
- [58] Field of Search ..... **252/312, 314, 315.1; 514/789, 756, 944**

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*Primary Examiner*—Richard D. Lovering  
*Attorney, Agent, or Firm*—J. Edward Hess; Donald R. Johnson

### [57] ABSTRACT

An inert, water-immiscible inert organic liquid having gas transport properties, water and a suitable emulsifying agent are formed into a stable gel by emulsifying a mixture of the same, concentrating the emulsion to form a gel phase and a liquid phase and separating the two phases. The resulting gel can be used as an ointment or cosmetic for skin irritations or wounds, or as a coating in industrial applications where extended contact of a surface with a gas, such as oxygen, is desired. Fluorocarbons or low viscosity silicone oils are suitable organic liquid components of the gels.

**1 Claim, No Drawings**