# United States Patent [19]

**Slovinsky**

[11] **4,295,762**

[45] **Oct. 20, 1981**


[54] **GROUTING-SOIL CONDITIONING SYSTEMS USING POLYOXYETHYLENE DIACRYLATES**


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[21] Appl. No.: **188,185**

[22] Filed: **Sep. 18, 1980**

**Related U.S. Application Data**

[63] Continuation-in-part of Ser. No. 13,105, Feb. 21, 1979, abandoned.

[51] **Int. Cl.**[3] ..... **C09K 17/00**

[52] **U.S. Cl.** ..... **405/264**; 71/903; 526/323.1

[58] **Field of Search** ..... 405/263, 264, 266; 71/27, 903; 47/58, DIG. 10; 526/323.1



[56] **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| 2,215,219 | 9/1940 | Haax | 526/323.1 X |
| 3,041,322 | 6/1962 | Krieble | 526/323.1 X |
| 3,371,712 | 3/1968 | Adams | 405/264 X |
| 3,417,567 | 12/1968 | Higashimura et al. | 405/264 |
| 3,607,848 | 9/1971 | Stoy et al. | 526/323.1 |
| 4,034,145 | 7/1977 | Gruber et al. | 526/323.1 |
| 4,056,670 | 11/1977 | Skoultchi | 526/323.1 X |

FOREIGN PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| 630632 | 10/1949 | United Kingdom | 526/323.1 |



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[57] **ABSTRACT**

A process of stabilizing soil which comprises contacting such soil with an aqueous solution of a water-soluble diacrylate ester of a polyoxyalkylene glycol monomer, which solution also contains a water-soluble polymerization catalyst capable of polymerizing the monomer into a water-insoluble gel.


**10 Claims, No Drawings**