United States Patent [19]

Colmelet

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[54] **METHOD FOR PRODUCTION OF USEFUL SUBSTANCES FROM SOYMEAL**

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Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 587,838, Mar. 12, 1984, abandoned, which is a continuation of Ser. No. 516,285, Jul. 22, 1983, abandoned.

[51] **Int. Cl.**[4] **A23J 1/14**; C07K 3/28

[52] **U.S. Cl.** **530/378**; 426/629; 426/634; 426/656; 426/657; 530/407; 530/414; 502/180

[58] **Field of Search** ..... 260/123.5, 112 R; 426/629, 634, 656, 657

[56] **References Cited**

U.S. PATENT DOCUMENTS

2,991,309	7/1961	Hoglan et al.	562/516
3,001,875	9/1961	Sair	426/656
3,152,955	10/1964	Gow et al.	260/112 R X
3,185,675	5/1965	Schmitz et al.	260/112 R
3,697,287	10/1972	Winitz	426/73
3,698,912	10/1972	Winitz	426/656
3,701,666	10/1972	Winitz	426/311
3,778,514	12/1973	Olson et al.	426/61
3,950,547	4/1976	Lamar, III et al.	426/74
3,995,071	11/1976	Goodnight, Jr. et al.	426/598
4,054,677	10/1977	Orban	426/602
4,091,120	5/1978	Goodnight, Jr. et al.	426/598
4,130,555	12/1978	Ohtsuka et al.	260/117
4,172,828	10/1979	Davidson	260/123.5
4,185,121	1/1980	Huster et al.	426/250
4,420,425	12/1983	Lawhon	260/123.5

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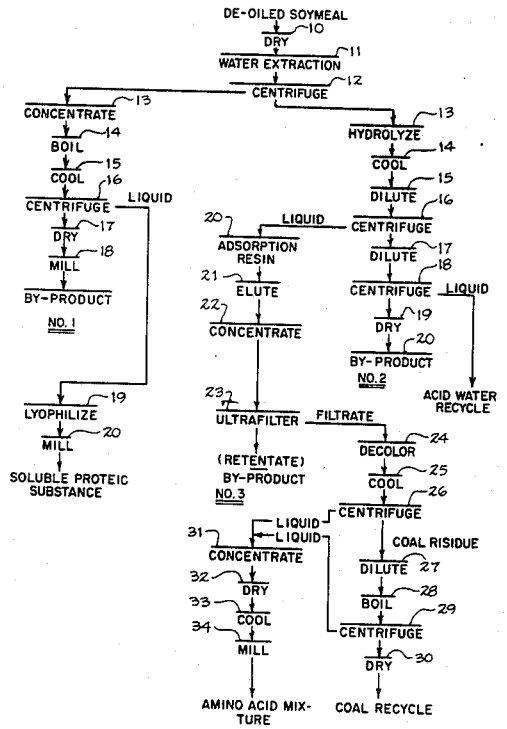
[57] **ABSTRACT**

A method is provided for recovering useful products from de-oiled soymeal. At least two useful products, a soluble proteic substance and a mixture of free amino acids, are recovered.

20 Claims, 2 Drawing Figures