

[54] **METHOD OF MAKING SOY MILK CONTAINING STABILIZED PROTEIN**

[76] **Inventor:** Jack Burr, II, P.O. Box 789, Dunedin, Fla. 33528

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[58] **Field of Search** 426/598, 634, 311

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Primary Examiner—Steven L. Weinstein
Attorney, Agent, or Firm—Ronald E. Smith

[57] **ABSTRACT**

A beverage that may be consumed as a substitute for bovine milk or that may be stably mixed with bovine milk in any proportion up to 10 days prior to consumption, and a process for making the same.

Soy beans are ground in the presence of an acidified water solution that has a pH that optimizes protein extraction from ruptured bean cells and that insures that the amino acids so extracted will be in cationic form and therefore electrically associated with negatively charged ions supplied by the acidified water solution so that the protein is maintained in suspension and so that the solution is otherwise stabilized. The low pH also inhibits the enzymatic development of "painty", "fishy", and "beany" off-flavors.

The solution is passed through a catalytic reduction means where a heat-absorbing reaction changes the positively charged amino acids into negatively charged ions that enter into electrical association with positively charged ions supplied by an alkaline solution that increases the pH of the solution prior to its entry into said catalytic reduction means so that the amino acids are maintained in suspension in a manner duplicating the manner in which such amino acids are maintained in suspension in bovine milk.

21 Claims, 2 Drawing Figures

