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[54] MICROGRANULAR PROTEIN OPACIFYING MATERIAL

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[58] Field of Search ..... 426/583, 804, 613, 589, 426/491, 65 P

[56] References Cited

U.S. PATENT DOCUMENTS

3,852,506 12/1974 Burge 426/453
4,045,589 8/1977 Petrowki 426/609
4,143,174 3/1979 Shah et al. 426/583
4,209,503 6/1980 Shah et al. 426/583
4,490,403 12/1984 Pisecky 426/453
4,734,287 3/1988 Singer 426/41
4,782,138 11/1988 Rialland 530/366
4,985,270 1/1991 Singer 426/515

FOREIGN PATENT DOCUMENTS

412590 2/1991 European Pat. Off. .

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[57] ABSTRACT

There is disclosed an opacifying material of micrgranular protein opacifying material having a mean particle size distribution of 0.1 microns to 10 microns with fewer than 20% of the total number of particles exceeding 10 microns, which is prepared by wet milling denatured whey protein isolate.

20 Claims, No Drawings