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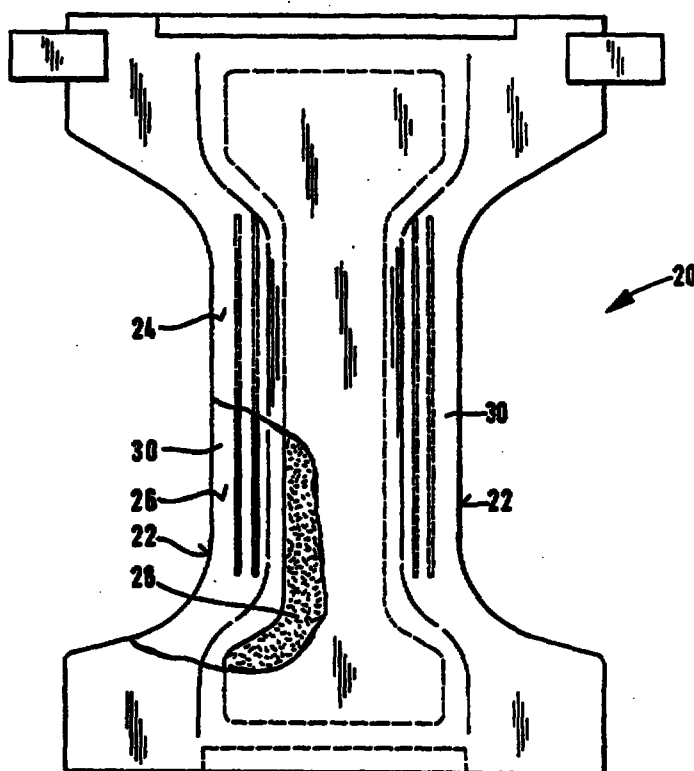
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(54) Title: ABSORBENT GELLING MATERIAL COMPRISING A DRY MIXTURE OF AT LEAST TWO TYPES OF HYDROGEL-FORMING PARTICLES AND METHOD FOR MAKING THE SAME

(57) Abstract

By mixing two types of hydrogel-forming particles having different Absorption Against Pressure values, a synergistic effect can be obtained wherein the AAP-value of the mixture is higher than would be expected on the basis of the weight fractions of the components of the mixture. By mixing two types of hydrogel-forming particles having different Teabag Centrifuge Capacity values and equal AAP values, an unexpected increase in the AAP value of the mixture is observed. A method of manufacturing the absorbing gelling material according to the invention comprises the steps of: providing a first type of hydrogel-forming material and a second type of hydrogel-forming material; introducing both types of hydrogel-forming material in a mixing means; and mixing both types of hydrogel-forming particles to form the mixture. Both types of hydrogel-forming material may be formed by a separate polymerisation process in separate batches, followed by mixing the two types of hydrogel-forming particles. Alternatively, a weight fraction of a single type of hydrogel-forming material may be separated from the bulk of the material, may subsequently be treated to increase the AAP value thereof, and may be mixed back into the bulk material.



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