

ABSTRACT

AN ABSORBENT COMPOSITE, METHODS FOR MAKING THE ABSORBENT COMPOSITE, AND AN ABSORBENT ARTICLE EMPLOYING THE SAME

An absorbent core composite is disclosed for incorporation into a disposable absorbent article. The composite includes a first material layer and a second material layer (preferably nonwoven) partially secured to the first material layer to define at least one pocket therebetween. Preferably, multiple pockets are defined, except in the case of where a generally uniform layer or bed of absorbent is preferred or better suited for the application. The pocket is said have a fixed initial volume. Further, an aggregate of absorbent particles is provided in the pocket(s) to occupy a portion of the fixed initial volume. The absorbent particles are preferably SAP particles and is characterized by a dry volume associated with a dry state and a swell volume associated with a liquid saturation state. In respect to or for the pocket, the aggregate is characterized by a collective dry volume and a collective swell volume, wherein the pocket has an initial configuration that retains the aggregate therein.

FIG. 1A