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(54) Title: METHOD AND APPARATUS FOR MAKING DISPOSABLE ABSORBENT ARTICLE HAVING ABSORBENT DISCONTINUOUSLY DISTRIBUTED ABSORBENT PARTICULATE POLYMER MATERIAL AND ARTICLE MADE THEREWITH

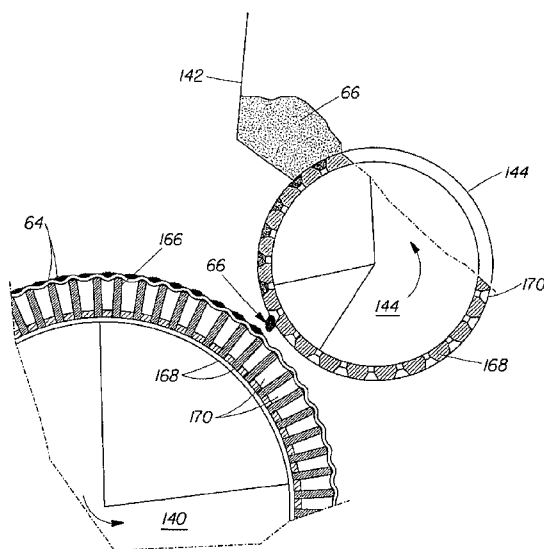


Fig. 11

(57) Abstract: A method for making a disposable absorbent core comprises depositing absorbent particulate polymer material from a plurality of reservoirs in a printing roll onto a substrate disposed on a grid of a support which includes a plurality of cross bars extending substantially parallel to and spaced from one another so as to form channels extending between the plurality of cross bars. The plurality of reservoirs in the first peripheral surface are arranged in an array comprising rows extending substantially parallel to and spaced from one another. The support and printing roll are arranged such that the plurality of cross bars are substantially parallel to the rows of the plurality of reservoirs and the absorbent particulate polymer material is deposited on the substrate in a pattern such that the absorbent particulate polymer material collects in rows on the first substrate formed between the first plurality of cross bars. A thermoplastic adhesive material is deposited on the absorbent particulate polymer material and the substrate to cover the absorbent particulate polymer material on the substrate and form an absorbent layer. An apparatus for making an absorbent article is also disclosed.



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