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H. R. WILLIAMS

1,882,309

SANITARY NAPKIN

Filed July 17, 1928

Fig. 1.

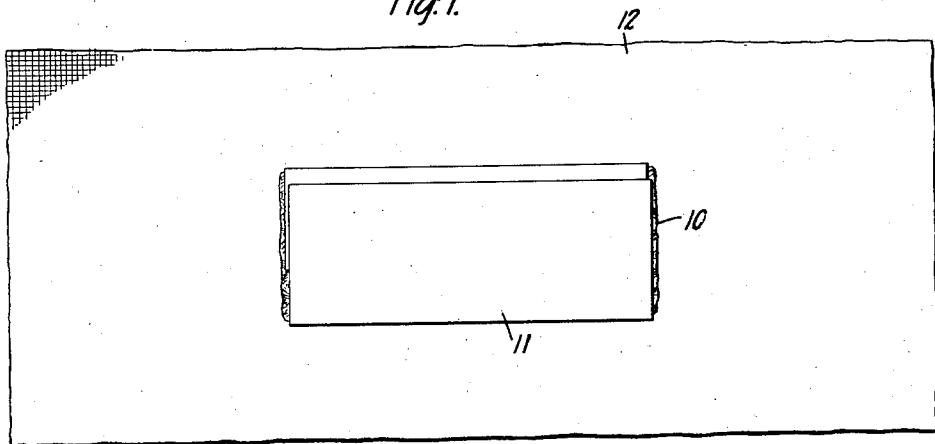


Fig. 2.

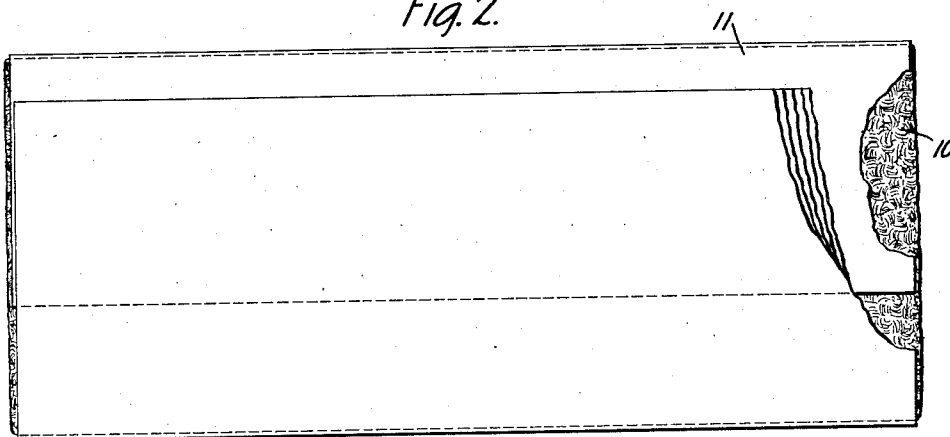


Fig. 3.

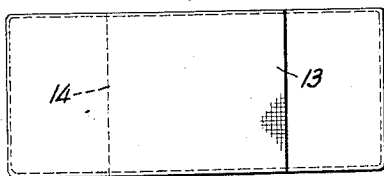


Fig. 4.

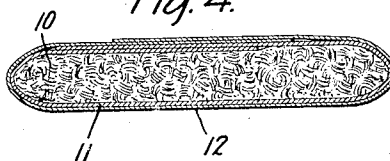
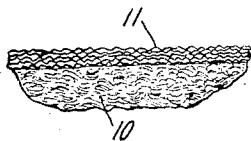


Fig. 5.



INVENTOR
Harriet P. Williams
BY
Moser & Koltz
ATTORNEYS

UNITED STATES PATENT OFFICE

HARRISON B. WILLIAMS, OF GLENS FALLS, NEW YORK

SANITARY NAPKIN

Application filed July 17, 1928. Serial No. 293,451.

The present invention relates to sanitary napkins and the like, and has for its principal object the provision of such an article, which, while employing finely divided wood pulp in a more or less unstratified condition, nevertheless has the properties of rigidity and cohesiveness to a satisfactory degree. The use of carded, finely divided wood pulp has long been proposed for the present purpose, but of itself it has little cohesiveness or body and thus requires special treatment to enable the article made therefrom to possess the above mentioned qualities. One proposed way has been to form very thin felted sheets of the material in much the same way as paper is formed, and then forming the article from a large number of superimposed sheets of such material. While the desirable quality of coherence is imparted to the article by this procedure, the expense involved is considerable.

The present invention aims to overcome this difficulty by employing a core of the unstratified material and an external layer of stronger material, also absorptive, preferably of stratified wood pulp, whereby the advantages of the stratified article are substantially achieved while at the same time the cost involved is but little more than the unstratified material. If desired, one or more layers of thin, unsized paper from other sources may also be employed for the purpose. However, I prefer to use stratified wood pulp since the article is then of the same composition throughout and except for the gauze outer wrapping, may after use, readily be disintegrated upon being flushed down the toilet. It will be noted that this external layer or jacket is open at the ends and thus exposes the filling material, whereby disintegration of the pad is facilitated when the latter is disposed of in a toilet, for example. The jacket also effectively prevents sifting therethrough of the wood pulp comprising the core.

The invention will be further understood by reference to the following detailed description taken with the annexed drawing in which,

Figure 1 is a view of the unwrapped article placed upon its gauze wrapper;

Figure 2 is a larger view of the unwrapped article with portions broken away;

Figure 3 is a view of the finished wrapped article;

Figure 4 is a view in transverse section of the article; and

Figure 5 is a detail showing the nature of the body portion and of the fabric layer next to same.

Referring to the above-mentioned drawing by characters of reference, 10 denotes the core of the digested wood fibre which has been carded and formed into a felt or mat, by machinery which is well known in the art. Around core 10 is placed a wrapper 11 of stronger material, preferably, as above stated, formed of a plurality of superimposed sheets of wood fibre, wrapper 11 being preferably disposed longitudinally of the core 10 and leaving the ends of said core open. Preferably, these sheets are formed as in the manufacture of unsized paper, and several thicknesses of them are placed together forming in effect a multi-ply fabric. Enclosing the composite strip is the usual gauze wrapper 12 which is folded in the customary way so as to give a finished article having the attaching tabs 13 and 14 which are shown folded over upon the body of the pad.

It will be understood that the article may be considerably modified as regards its absorptiveness and that the same may have incorporated therein deodorants and other modifying agents, all as is well known in the art.

What I claim is:

A sanitary napkin or the like composed of a core of soft, substantially finely di-

vided, loosely coherent, digested wood pulp,
an enclosing jacket formed of readily dis-
integrable sheeted, digested wood pulp, said
jacket extending longitudinally of the core
5 and of the same length and leaving the ends
of the core exposed, and being folded once
around the core so as to provide a single
overlap of one longitudinal edge of the jacket
material beyond the other for a substantial
10 portion of the width of one face only of the
napkin, and a gauze wrapper exterior to said
jacket.

In testimony whereof I have affixed my
signature to this specification.

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HARRISON R. WILLIAMS.

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