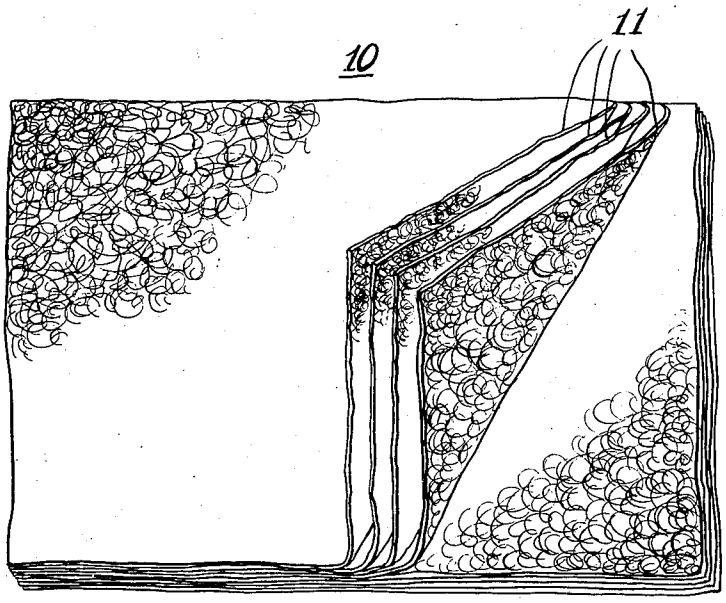
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RENEWABLE SURFACE DUST CLOTH

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RENEWABLE SURFACE DUST CLOTH

Application filed December 27, 1929. Serial No. 416,811.

This invention relates to dust cloths and more particularly to a paper dust cloth having a plurality of fresh cleaning surfaces which are successively available by stripping off the outermost one.

It has been more or less customary in this art to utilize dust cloths of fabric or dust cloths having only a single cleaning surface so that when the surface is soiled from use the dust cloth must either be discarded or washed, or refolded to expose a partially clean surface but in each of these cases economy is not secured and the dirt or grease which is removed from the surface being cleaned is very likely to be rubbed into the next portion of the surface or another surface being treated so as to mar the same or result in an inefficient cleaning of the same. These disadvantages are all eliminated by the present invention which additionally presents advantages of its own peculiar to its nature and composition.

In a general way, the present dust cloth is composed of a comparatively thick body of loosely matted fibers arranged in a number of very thin superposed layers each of which readily separates from the under-lying layers merely by stripping off the same. In this way a dust cloth of a given size can be utilized very economically and for a much greater surface or area to be cleaned even than a plurality of dust cloths of the known types, and as each outermost layer becomes soiled a fresh under-lying layer can be readily made available by simply stripping off the outermost soiled layer. In addition the dust cloth may be and preferably is impregnated with any suitable or desirable wax or oil or the like for the usual purposes.

The drawing illustrates a perspective view of a preferred embodiment of the invention, several of the layers being partially turned back to show more clearly the manner in which the dust cloth is made.

Referring now particularly to the drawing in detail the dust cloth is indicated in its entirety by the numeral 10. The dust cloth may be of any appropriate size and shape and the particular embodiment shown is approximately twelve inches in length and of about the same width.

The material of the dust cloth is, as has already been stated, paper and composed of a plurality of superposed and meshed thin fibrous loosely compacted layers 11. Each layer is relatively very thin and absorbent due to its loose texture which may be called an incomplete unsized paper web. The dust cloth may be formed by rolling into a large roll a considerable length of the loosely compacted fibrous web and from the large roll thus formed portions of suitable size and thickness may be cut out to any desired depth of material, thereby determining the number of layers in a given dust cloth and hence the number of fresh cleaning surfaces.

Each dust cloth may thus consist of a number of thin layers and in practice the number of layers may run anywhere from a comparatively small number as 5 or 6 to a comparatively large number say 25 or 50 or even more.

The loosely compacted fibrous web may be impregnated with a wax or oil at any desired stage in its formation but one convenient manner of impregnation has been found to be that of spraying or atomizing the oil or wax in a liquid condition onto the paper web as it comes from the forming roll. It is clear, however, that the impregnation could be performed at other points in the formation of the dust cloth as by incorporating the materials in the vat or Jordan machine in which the pulp is mixed or even by exposing the dust cloths or rolls of fibrous material before they are cut into dust cloths to the vapors or other action of the wax or oil under suitable conditions.

In use, a dust cloth say of approximately 12 by 12 inches is manually manipulated over the surface to be cleaned such as that of furniture, automobiles, floors, glass or the like until the outermost surface which is being utilized for the cleaning operation is relatively dirty or soiled so that its further use would be inefficient or even detrimental to the surface being cleaned or dusted. When such a condition is reached the soiled layer can readily be picked up at one of its corners by

the fingers and stripped off leaving exposed therebeneath a clean surface immediately ready for use. When this next layer is similarly soiled it may be stripped off as was the first layer and the cleaning operation may be continued if desired until the dust cloth has been fully utilized or when the remaining layers become very few in number they may be readily added to another dust cloth of similar kind merely by superposing them thereon, whereupon the loose fibrous structure of one layer will in a measure adhere to the loose fibers of the adjacent layers. In this manner there is no waste of material under any circumstances and the cleaning operation can proceed without interruption.

A given thin loosely compacted web may be rolled into a large roll of considerable length in order that the loosely compacted fibres of each of the layers of the web thereby formed will intermesh and cling to the fibres of adjacent layers to form a loosely compacted but composite roll of polishing or dust cleaning material. To obtain a dust cloth of a desired length, width or depth, a planar section is cut across said roll to a depth corresponding to a desired number of layers of compacted webs.

These dust cloths can be made exceedingly cheaply so as to be widely sold or dispensed at a nominal price and moreover the soiled layers are very easily disposed of and if desired a water soluble paper fiber may be used thereby aiding the ready disposal of the soiled layers.

It has been found in practice that such a dust cloth as I have above described is very easy to utilize and the absorbent nature of the layers enables a relatively great amount of soiled matter to be held in the loosely compacted fibers. The advantages are great and the dust cloths may be shaped to fit the hand and in any desirable shape so as to facilitate their use.

What I claim as new and desire to secure by Letters Patent is:

1. A flat, rectangular paper dust cloth which includes a plurality of superposed and loosely compacted separate, identical layers of thin and fibrous cellulosic material, each of said layers having a loose texture of wood fibre and being thin and absorbent, said layers being removably secured together by intermeshing of the loose fibrous texture of adjacent layers, successive layers being available by stripping off the utilized superjacent layers.

2. A flat, rectangular paper dust cloth which includes a plurality of superposed and loosely compacted separate, identical layers of thin and fibrous cellulosic material, each of said layers having a loose texture of wood fibre and being thin and absorbent, said layers being removably secured together by intermeshing of the loose fibrous texture of adjacent layers, successive layers being available by stripping off the utilized superjacent layer, said cloth being impregnated with oil.

In testimony whereof, I have hereunto subscribed my name this 20th day of December, 1929.

THORNTON A. GREEN.