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GREASEPROOF GUMMED PAPER

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5 Claims. (Cl. 91-68)

This invention relates to greaseproof gummed paper and is particularly useful in connection with gummed paper which is used for labels that are to be attached to oily or oil-secreting surfaces such as the dressed skin of poultry, etc.

An object of the invention is to provide gummed paper which may be readily applied to oily or oil-secreting surfaces without producing a discoloration or deforming of the paper or label.

Other specific objects and advantages will appear as the specification proceeds.

In preparing my improved greaseproof gummed paper, I employ any suitable paper for gumming such as the paper which is ordinarily used for this purpose and for forming gummed labels, etc. One side of the paper is coated with a thin layer of lacquer, the lacquer being resistant to oil. The lacquer may be of any suitable composition. I have found that a large variety of lacquers are satisfactory in that they prevent oil from passing into the paper. Lacquers formed of vinyl resins and other synthetic resins have been found very satisfactory. Also, I am able to employ lacquers in various forms beginning with the synthetic type and including those containing nitrocellulose and to which are added resins of various types.

Adhesive containing a reactive solvent is next applied to the lacquer surface and preferably as soon as possible after the lacquer has dried. The adhesive may be of any suitable composition such as water soluble glue, etc. The solvent is employed for two fundamental purposes. Its first object is to enable the water soluble adhesive to obtain a grip on the lacquer surface which is normally repellent to the adhesive. A second object is to enable the adhesive, after it has been remoistened, to again regain its grip on the lacquer surface. In the initial forming of the gummed paper, the adhesive, when dried, contains a small portion of the solvent which again becomes active upon moistening of the adhesive and enables the moistened adhesive to regain its hold on the lacquer.

The solvent may be of any suitable type but preferably of a water miscible type. I have found mono-methyl ether of ethylene glycol satisfactory for this purpose.

As an example of the process, I have added from one-half to one per cent of the above solvent, mono-methyl ether of ethylene glycol, to a water soluble adhesive and have found that such a compounded adhesive maintains its hold upon the oil-impervious coating or lacquer.

The coating or gummed product may be tinted or imprinted in any desired manner to give the product a distinctive color or mark for identification, etc. Also, if desired, the lacquer or oil-resistant coating may be applied to both sides of the paper, if desired, to make the entire product greaseproof.

After the lacquer and adhesive coatings have been applied and the product is dry I pass the paper over the usual gum-fracturing bar to break up the gum layer into segments which prevent curling. I find that this processing operation results in thorough and uniform fracturing of the gum layer without breaking the continuous surface of the lacquer, etc. At the same time, the reactive solvent is effective in causing the gum fragments to cling to the normally repellent lacquer surface.

In the operation of applying the gummed paper or label to a surface, the application of water to the gummed surface causes the gum to be quickly dissolved because of the penetration of the water between the segments while at the same time the water is prevented from entering the paper. The presence of a solvent in the gum fragments enables the dissolved adhesive to regain its grip on the lacquer. The lacquer coating remains unchanged in position to prevent passage of oil into the body of the paper.

The new product may be readily applied to a surface without weakening the paper body and the written or printed matter on the paper is not obliterated or made difficult to read by oil discolorations.

The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitations should be understood therefrom, but the appended claims should be construed as broadly as permissible, in view of the prior art.

I claim:

1. A greaseproof gummed paper for labels and the like comprising a strip of paper having at least one side thereof coated with a water-insoluble oil-resistant lacquer, a water soluble adhesive on said lacquer, said adhesive being fractured throughout to prevent curling, and an organic solvent for said lacquer remaining in said adhesive for uniting said adhesive to said coating.

2. A greaseproof gummed paper comprising a strip of paper having at least one side thereof covered with an oil resistant waterproof lacquer, a water soluble adhesive over said lacquer, an organic solvent for said lacquer and said adhesive contained in said adhesive for uniting said ad-

hesive to said lacquer, said adhesive being fractured throughout while said lacquer remains unbroken.

5 3. A greaseproof gummed paper comprising a strip of paper having at least one side thereof covered with an oil resistant waterproof vinyl resin lacquer, a water soluble adhesive over said lacquer, a relatively high boiling water-miscible organic solvent for said lacquer contained in said adhesive, said adhesive being fractured throughout while said lacquer remains unbroken.

10 4. A gummed paper tape comprising a strip of paper having at least one side thereof coated with a waterproof oil resistant resinous lacquer, an adhesive over said lacquer, said adhesive having contained therein a derivative of a dihydric al-

cohol for uniting said adhesive to said lacquer, said derivative being a solvent for said adhesive and said lacquer, and said adhesive being broken into small fragments to render the tape noncurling, said lacquer surface being unbroken.

5 5. A greaseproof gummed paper comprising a strip of paper having at least one side thereof covered with an oil-resistant waterproof lacquer, a water-soluble adhesive over said lacquer, said adhesive containing monomethyl ether of ethylene glycol, said ether being a solvent for, and serving to unite, said adhesive and said lacquer, and said adhesive being fractured throughout while said lacquer coating remains unbroken.

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