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2,069,335

COMPOSITE PACKAGE

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Fig. 1

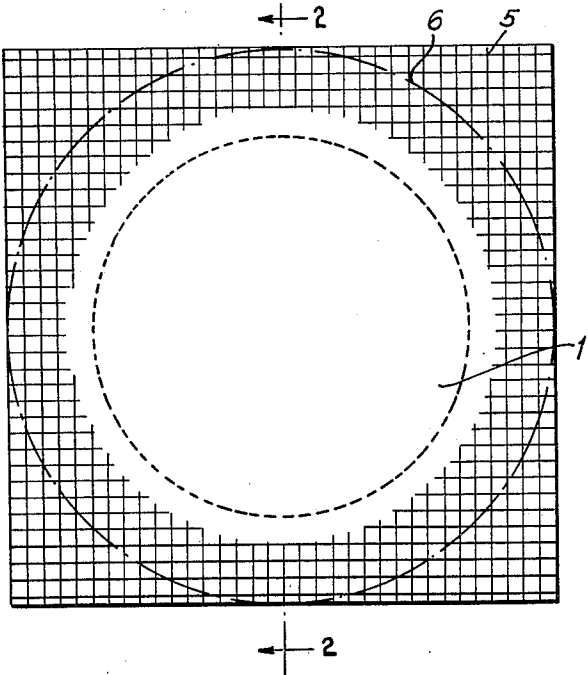


Fig. 2

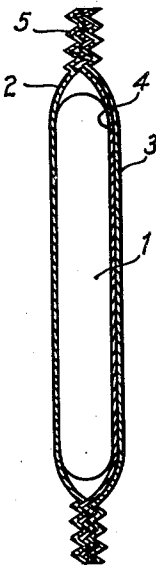
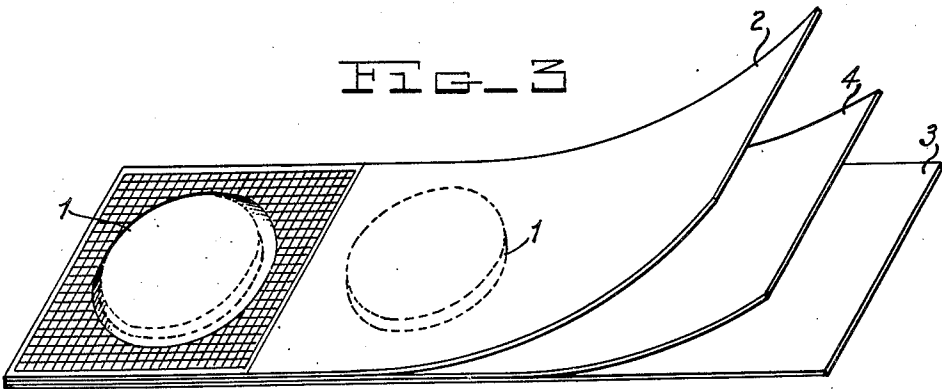


Fig. 3



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COMPOSITE PACKAGE

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2 Claims. (Cl. 206—46)

This invention pertains in general to a commodity package formation and specifically relates to an arrangement of strips of metalliferous foil and a binder strip bearing a fusible coating to form a package of the kind adapted to contain products readily segregated as units.

One of the principal objects of this invention is to provide a package which will afford an effective covering for commodity articles, not only to protect such articles from dust, dirt and the like, but also where the articles are subject to deterioration from moisture, to exclude moisture from contact therewith so that they may be transported or carried in stock without said deterioration.

Another object of this invention consists in the provision of a form of package composed of a top layer of regenerated cellulose, which may if desired bear indicia in the form of markings such as trade-marks, letters, numerals or other symbols, and a bottom layer of metal foil bonded together in areas adjacent to the commodity article by the insertion, between the top cellulose layer and the bottom metal foil layer, of a fusible coated binding strip, to combine the whole, by a heating, pressure and crimping process to form a durable as well as an attractive, ornamental and sanitary package for commodity articles.

The invention also, so far as it relates to a process or method, is intended to provide a sequence of operations in accordance with which a suitable package of the character described may readily be formed.

One form of package embodying this invention is illustrated in the drawing accompanying the specifications, in which like reference numerals designate corresponding parts, and in which drawing:

Fig. 1 is a plan view of the combined and finished package unit.

Fig. 2 is a transverse sectional view taken along the line 2—2 of Fig. 1 showing the arrangement of the several layers of packaging materials and the bonded crimped areas surrounding the commodity article.

Fig. 3 is a perspective view showing the arrangement of the top layer strip of transparent regenerated cellulose, the back layer strip of metal foil and the intermediate fusible coated binding strip, all of which combined together make up the package unit.

In the use of metal foils, printed or colored paper or other materials in forming packages enclosing commodity articles, it has been found

difficult to incorporate metal foil or paper with transparent cellulose material, so as to effect a satisfactory sealing or bonding of these packaging materials to ensure a sanitary, dust and moisture-proof package. This invention solves such a difficulty by providing a transparent binder strip with fusible coatings, inserted between the top and bottom layers of packaging materials. A heating, pressure and crimping process causes a physiochemical change in the transparent cellulose and fusible coated binder strip to form an oxidized embrittled seal which effectively binds together the several layers of package material strips, forming a perfect durable and tight sanitary, dust and moisture-proof package. The sealing area, due to its oxidized embrittled nature, facilitates tearing of the materials to open the package in removing the article from enclosure formed by the normally tough and wiry cellulose materials.

Another form of package in accordance with this invention consists in providing metal foil strips for both front and back covers of the commodity article, these two metal foil strips being united and sealed in areas adjacent to the commodity article, by the insertion, between the metal foil strips, of the fusible coated strip in the process heretofore mentioned. Another form of package may consist in providing printed or colored paper in various combinations, with or without the metal foil, these being bonded and sealed by the insertion of the fusible coated strip between the several layers of package materials and subjected to the heating, pressure and crimping process. A further modified form of package may consist in providing indicia in the form of trade-marks, letters, numerals, directions, etc., on the front cover packaging strip before combining it with the other packaging material strips. Such packages may be produced in various combinations of lengths and shapes as square units or those cut in circular form.

In producing the commodity package in accordance with this invention, there is provided a top cover strip 2, in Figs. 2 and 3, of a tough wiry and flexible transparent packaging material such as regenerated cellulose, through which the commodity article 1 is clearly distinguished. There is also provided a back cover strip 3 of metal foil of aluminum, tin or other metal, this strip making an attractive and ornamental as well as dust and moisture-proof backing to the commodity package.

As the front cover strip of transparent regenerated cellulose 2 and the back cover strip of

metal foil 3 may have no binding or sealing qualities in themselves, there is provided a third intermediate strip of transparent material 4, with a fusible coating thereon which is inserted between the front and back cover strips and the combined strips then subjected to a heating, pressure crimping process that binds and seals the several packaging strips in area 5 adjacent to the commodity article, forming a sanitary, dust and moisture-proof homogenous commodity article package of an attractive appearance. A cutout package of circular form is shown in Fig. 1 as represented by the dot and dash line.

In the method of producing the composite package above described and as part of the invention, the operations consist in mounting the fusible coated binding strip and the metal foil strip on one or separate reels from which the strips are fed into heated crimping rollers which gives an initial bonding to the two strips. This combined strip is then fed into a packaging set of heating crimping rollers, together with the front cover regenerated cellulose strip fed from a separate reel. Between these two strips are deposited, from a suitable feeding device, the commodity article to be packaged. In passing through these packaging rollers the heated and crimping rollers complete the sealing and binding together of the several strips of packaging material, forming the finished commodity package as described in this invention. Another method can be provided for feeding all three of the packaging strips directly at the same time into the packaging rollers by mounting the three packaging strips each on separate reels.

In accordance with the invention the binder strip 4 consists of a viscose material such as "diaphane", having a transparency to permit the

metal foil to impart its metallic effect to the front appearance of the package. This strip 4 is provided on both sides with a heavy coating of a fusible material to which the strips 2 and 3 are attached in the packaging process.

Although I have shown a preferred form of package fabrication it will be understood that various changes and equivalent forms can be made without departing from the intended scope of my invention. I do not therefore desire to limit myself to the foregoing except as may be pointed out in the appended claims.

What I claim as new and desire to secure by Letters Patent of the United States is:

1. A package fabrication comprising, a layer of flexible light pervious cellulose material having a fusible coating upon opposite sides thereof, a layer of cellulose material attached to one side of said first mentioned layer in a manner such as to form a pocket with respect thereto to receive a commodity, and a metalliferous layer of material attached to the other side of said first mentioned layer to provide a metallic effect to said package structure as a whole.

2. A package fabrication comprising, an envelope composed of two layers of light pervious cellulose material marginally bonded together, at least one of said layers having an external fusible coating, and a layer of metal of normally non-adhesive characteristics attached to said envelope through the agency of said fusible coating, said layer of metal imparting a stiffening effect to said package and being visible through said two layers of material from the side of said package opposite from that to which the layer of metal is attached to give a characteristic metallic effect to the package fabrication as a whole.

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