

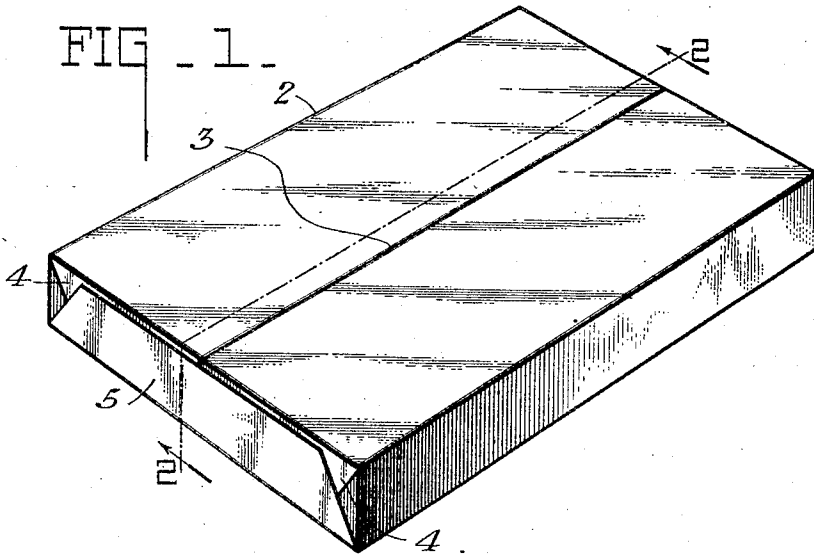
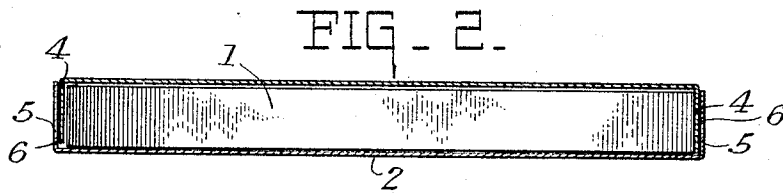
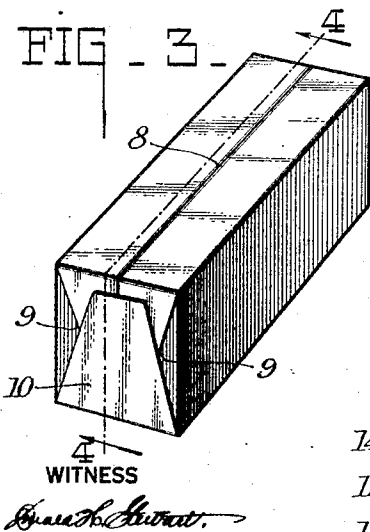
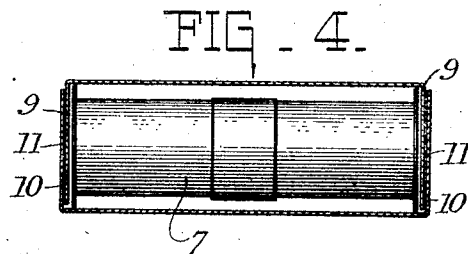
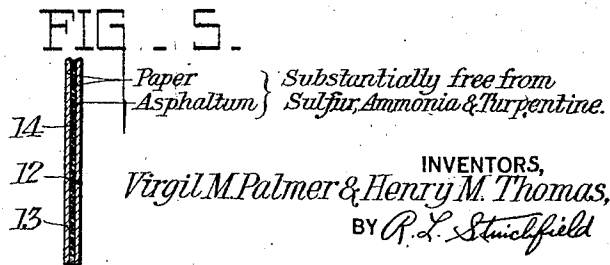
Dec. 8, 1925.

1,564,707

V. M. PALMER ET AL

PACKAGE OF WRAPPED PHOTOGRAPHIC MATERIAL

Filed May 10, 1923



UNITED STATES PATENT OFFICE.

VIRGIL M. PALMER AND HENRY M. THOMAS, OF ROCHESTER, NEW YORK, ASSIGNORS
TO EASTMAN KODAK COMPANY, OF ROCHESTER, NEW YORK, A CORPORATION OF
NEW YORK.

PACKAGE OF WRAPPED PHOTOGRAPHIC MATERIAL.

Application filed May 10, 1923. Serial No. 638,122.

To all whom it may concern:

Be it known that we, VIRGIL M. PALMER and HENRY M. THOMAS, citizens of the United States of America, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Packages of Wrapped Photographic Materials, of which the following is a full, clear, and exact specification.

This invention relates to packages in which light sensitive photographic materials are protected by suitable wrappings. One object of the invention is to provide such a package in which the wrapping will be very inexpensive compared to similar wrappings now in general use and yet will at the same time have all the other necessary qualities. Another object of the invention is to provide a wrapping that will not fog or impair the photographically sensitive material under the conditions in which it is stored and used. Still another object of the invention is to provide a wrapping that will be effectively moisture proof even over prolonged periods in hot and moist climates. A further object of the invention is to provide a wrapping which is sufficiently resistant against mechanical injuries. Still another object of the invention is to avoid the expense of metal foil in a wrapping which is otherwise suitable for protecting photographically sensitive material. Other objects will hereinafter appear.

In the accompanying drawing:

Fig. 1 is a perspective view of a package embodying one form of our invention;

Fig. 2 is a section taken on the line II—II of Fig. 1, the contained photographically sensitive unit being shown in elevation;

Fig. 3 is a perspective view of such a package embodying another form of our invention;

Fig. 4 is a section on the line IV—IV of Fig. 3, the photographically sensitive unit being shown in elevation;

Fig. 5 is a diagrammatic sectional view on an exaggerated scale of one form of wrapping material suitable for use in our package.

Photographically sensitive materials, such for example as film packs and roll film cartridges, have been customarily wrapped in a covering of combined metallic foil and

paper. The metallic foil has been relatively expensive and the handling of it during the wrapping operation presents drawbacks. We have, therefore, sought for a wrapping material which would have at least all of the essential qualities of the metallic-foil paper wrapping and yet would be cheaper and simpler to manipulate. This we have found in a wrapping which comprises layers of fabric material and asphaltum. The fabric material is usually paper, although cloth may be used in one or more layers. Preferably the wrapping comprises asphaltum or equivalent flexible waterproofing material sandwiched between two layers of tough paper. The layers of this laminated fabric must be substantially free from substances which produce fog in the photographically sensitive material when the package is stored, even in warm climates, for prolonged periods. Such impurities, which it is essential to substantially keep out of the paper and asphaltum, are sulfur (including compounds which evolve it) ammonia and turpentine.

Referring to the accompanying drawings, 1 indicates a daylight loading film pack unit of any usual or preferred type. Our wrapping is particularly effective in protecting film packs in which the contained films are protected by a thin safety cover of black paper, such cover not being waterproof, as will be understood by those skilled in the art. Directly around the film pack unit 1 is folded the wrapping 2 of waterproof material. Any suitable system of folds may be used by which all entrances of air to the interior of the package are substantially sealed. Thus the paper may be wrapped to form a longitudinal lock seam 3, the wrapping being turned into end folds 4 and 5 which are sealed up by any suitable adhesive 6. Glue is effective but waterproof cements, say those based on rubber, are eminently satisfactory.

The wrapping is also effective in connection with daylight loading roll film cartridges, as indicated at 7 in Fig. 4. The folds in the wrapping may be of any suitable form. By way of illustration, I have shown a wrapping having a longitudinal lock seam 8 and end folds 9—10 sealed up by a suitable adhesive 11.

Fig. 5 illustrates diagrammatically one of

the forms of laminated material which may be employed. A layer 14 of asphaltum or equivalent flexible waterproof material is sandwiched between two layers of thin but tough paper 12 and 13. All of these layers 5 12, 13 and 14 are substantially free from sulfur, ammonia and turpentine.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

10 1. A package having photographically sensitive film enclosed in a substantially moisture-proof wrapping, said wrapping comprising layers of fabric material and asphaltum, said wrapping being substantially 15 free from sulfur, ammonia, and turpentine.

2. A package containing a light-sensitive photographic film unit for daylight loading

into a camera, a substantially moisture-proof 20 wrapping directly covering said unit comprising combined layers of paper and asphaltum, said wrapping being free from sulfur, ammonia, and turpentine.

3. A package containing a light-sensitive 25 photographic film unit for daylight loading into a camera and a substantially moisture-proof wrapping covering said unit, said wrapping being free from metal-foil and comprising layers of paper joined by an in- 30 termediate layer of adhesive asphaltum, said paper and asphaltum being substantially free from sulfur, ammonia and turpentine.

Signed at Rochester, New York, this 2nd 35 day of May, 1923.

VIRGIL M. PALMER.
HENRY M. THOMAS.