

UNITED STATES PATENT OFFICE.

JOHN F. RODGERS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN PRESERVATIVE WRAPPING AND PACKING PAPER.

Specification forming part of Letters Patent No. **208,853**, dated October 8, 1878; application filed January 9, 1878.

To all whom it may concern:

Be it known that I, JOHN F. RODGERS, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain Improvements in Preservative Wrapping and Packing Paper, of which the following is a specification:

The object of my invention is to provide an inexpensive means for protecting cloths, furs, &c., from mildew and the ravages of insects, &c.; and to this end it consists in a paper charged or treated with disinfectant and antiseptic materials, as hereinafter described, to be used as a wrapper or envelope.

The paper used is made from woolen and cotton rags and Manila rope or Manila paper. This paper is saturated with a mixture of seventy parts, by measure, of the oil remaining from the distillation of coal-tar naphtha by live steam with five parts crude carbolic acid, containing at least fifty per cent. of phenols, twenty parts of thin coal-tar heated to about 160° Fahrenheit, and five parts of refined petroleum.

After saturating the paper it is passed through squeezers and over hot rollers for the purpose of drying. When cool it is cut into sheets as desired, and the drying completed in the atmosphere. The paper thus treated is used for packing woolen clothing, cloth, furs, carpets, and all material likely to be injured by moths, mice, or vermin, against which it is

a preventive. It will also to a great extent prevent cotton material from mildew. It is a powerful disinfectant and antiseptic, and clothing or any textile material packed in it is prevented from decay or infection, and material packed in it will retain its freshness, color, and strength longer than it would were the paper not used.

The formula given is considered the best that can be used; but in the absence of refined petroleum five per cent. more of the coal-tar may be used in its place.

It is also obvious that other kinds of paper than that mentioned may be treated in the same manner, but the kind described is deemed best.

Having thus described my invention, what I claim is—

1. A paper treated with the materials named in substantially the proportions specified.

2. The paper treated with a mixture of the oil remaining from the distillation of coal-tar naphtha by live steam, crude carbolic acid, thin coal-tar, and refined petroleum, in the manner and proportions substantially as specified.

JOHN F. RODGERS.

Witnesses:

P. T. DODGE,

WILL W. DODGE.