UNITED STATES PATENT OFFICE.

THOMAS J. BOYER, OF DUBOIS, PENNSYLVANIA, ASSIGNOR OF THREE-FOURTHS TO GEO. D. HAMOR, EMANUEL KUNTZ, AND ALLISON M. ROSCOE, ALL OF SAME PLACE.

INSECTICIDE.

SPECIFICATION forming part of Letters Patent No. 351,897, dated November 2, 1886.

Application filed July 1, 1886. Serial No. 206,840. (No specimens.)

To all whom it may concern:

Be it known that I, THOMAS J. BOYER, a citizen of the United States, residing at Dubois, in the county of Clearfield and State of Pennsylvania, have invented certain new and useful Improvements in Insecticides; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to insecticides for protecting vegetation and plants from vermin.

The invention consists in the compound and paper, felt, or suitable fabric and porous substance impregnated therewith in the manner to be described.

The vital point of the invention consists in the manner of preparation of the paper and the compound with which it is impregnated, which consists of coal or gas tar, thirty-five parts; crude petroleum, five parts; oil of cedar, ten parts; oil of pennyroyal, five parts; oil of sassafras, five parts; oil of citronella, five parts; creosote, five parts; carbolic acid, twenty-five parts, and sulphur, five parts.

The above ingredients are mixed thoroughly in about the proportions stated, which may be varied according to the locality and number of vermin to be repelled or exterminated. One species of vermin may abound in one place, and in another locality the same species may be rare; hence the advantage of varying the proportions to correspond with the predominance of any one species. The proportions best adapted for any particular locality, having been once ascertained by experiment and research, remain fixed.

The above mixture or compound is introduced into the vat containing the pulp just previous to the making of the paper or felt, which is made in the usual manner; or the paper, felt, wood, and kindred porous substance may be impregnated in any desired manner, either by immersion or having the same brushed thereover. The introduction of the compound into the paper at the time of manufacture is preferred, as it is more intimately and thoroughly mixed, and the repelling properties of the paper will be more lasting, and it (the paper) will give the best results.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The herein-described insecticide, consisting of coal or gas tar, crude petroleum, oil of cedar, oil of pennyroyal, oil of sassafras, oil of citronella, creosote, carbolic acid, and sulphur, in about the proportions specified.

2. The herein-described insecticide, consisting of a porous substance impregnated with the compound composed of coal or gas tar, crude petroleum, oil of cedar, oil of pennyroyal, oil of sassafras, oil of citronella, creosote, carbolic acid, and sulphur, in about the proportions set forth.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS J. BOYER.

Witnesses:
C. M. POWERS,
E. S. GRAY.