PREVENTION OF DETERIORATION CENTER
DIVISION OF CHEMISTRY AND CHEMICAL TECHNOLOGY
NATIONAL ACADEMY OF SCIENCES—NATIONAL RESEARCH COUNCIL

A PRELIMINARY SURVEY OF
LITERATURE RELATING TO RODENT AND INSECT
REPELLENCY OF WOOD-FIBER INSULATION MATERIALS

Compiled by
Richard W. H. Lee

March 4, 1962

2101 Constitution Avenue
Washington 25, D. C.
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[Process for protecting wood against fire and pests].
U.S. Office of technical services. Publication Board Series

G-5930(1)  Spiller, D.
Toxicity of pentachlorophenol to the common house borer Anobius
punctatum De Geer. 1. Residual contact and ovicidal action.

G-5974  DeWitt, James B., Jack F. Welch and E. Bellack.
Rodent repellency studies identify chemical and physical
deterrents that may be effectively used in packaging

G-6473  Welch, Jack F., James B. DeWitt and Ervin Bellack.
Rat deterrents for paper packages. Reprint Soap Sanit.
Chemicals 26(4):122-124,147; (5):147,149,151,177. April-
May 1950.

G-6670  Wolcott, George N.
Benzen hexachloride as a termite repellent. Reprint J. Agr.

The toxicity and repellence of organic chemicals toward termites,
and their use in termite-proofing food packages. In Hilgardia

G-6922  Welch, Jack F.
Rat-repellent findings. In Modern Packaging 24(9):138-140.
May 1951.

G-6996  Block, S.S.
Protection of paper and textile products from insect damage.

G-7645  Behr, H.A. and A.J. Hubert.
Preservation of fiber insulating board with copper pentachloro-


G-11407

Laudani, Hamilton, Dean F. Davis and George R. Swank (U.S. Agricultural Marketing Service. Stored-Product Insects Laboratory, Savannah, Ga.).


G-11522


G-11744

Wolcott, George N. (Puerto Rico. Agricultural Experiment Station, Rio Piedra).


G-11920


Rodent resistance of repellent-treated boxes prepared by the Paulsboro manufacturing company under the auspices of the Quartermaster corps. 15 p. [n.d.].

G-12016

Indria, Ray W., Harry K. Gouck, and C.V. Bowen.


G-12522


G-12754

Davis, Dean F. and Hamilton Laudani (U.S. Agricultural Marketing Service. Stored-Product Insects Laboratory, Savannah, Ga.).


G-13397

U.S. Fish and Wildlife Service (Jack F. Welch).


P-1664

Carter, William James, Patentee.

Rotproofing of textiles, paper, and other fibrous materials. U.S. Pat. 2,280,477; April 21, 1942. 1 p.

P-1665

Easling, Newton P., Patentee.

Baumgartner, Luther L., Patentee.  

Baumgartner, Luther L., Patentee.  

Fiero, George W., Howard F. Seeland and George H. Batt, Patentees.  

Mayfield, Paul, Patentee.  

Jones, Leonard Ellwood, Patentee.  

Stewart, William D. and John H. Standen, Patentees.  
Complex amine products with dialkyl zinc disiocarbamates as pesticides. U.S. Pat. 2,588,426; March 11, 1952. 4 p.

Ralston, Anderson H., John P. Barrett and Ervin W. Segobrecht, Patentees.  
Rodent repelling binder cord and process of making same. U.S. Pat. 2,578,595; December 11, 1951. 2 p.

Bauer, Oscar W. and John W. Teter, Patentees.  

Dalmar, Geza S. and Ernest Neil Macallum, Patentees.  

Link, Karl Paul, Patentee.  

Newcomer, Jack S., Patentee.  

Fredenburg, Robert H. and William E. Bisinger, Patentees.  

Barone, Morton, Patentee.  
3,4-methylendioxyphenyl ethers as synergists for pyrethrins. U.S. Pat. 2,766,517; September 29, 1956. 2 p.
P-4190
Zakheim, Murray, Patentee.
Composition comprising copper salts of fluorine and arsenic and fibrous materials containing same. U.S. Pat. 2,772,199; November 27, 1956. 4 p.

PDL-30904

PDL-30924

PDL-30925

PDL-31571

PDL-31693

PDL-32134

PDL-32135

PDL-32314

PDL-32766

PDL-32781

PDL-32930
Katsaros, Constantine and Andrew A. Baldoni, Patentees. Protecting objects from rodent attack. U.S. Pat. 2,824,826; February 25, 1958. 5 p.

PDL-33013
Fisher, R.C. (Gr. Brit. Forest Products Research Laboratory, Prince Richard, Eng.).


Fry, Elaine C. and William E. Bissinger, Patentees.

Jucaitis, Pranas, Patentee.

Jucaitis, Pranas, Patentee.

Harker, Robert J., Patentee.

Goodhue, Lyle D., Patentee.

U.S. Fish and Wildlife Service (Oscy Williams).

Weeks, James R. (Drake University, Des Moines, Iowa).


Bottoms, Robert R., Patentee.

Manzelli, Manlio A., Virgil H. Young, Jr. and Charles L. Harowitz, Patentees.
Method of repelling rodents with furan compounds. U.S. Pat. 2,924,544; February 9, 1960. 3 p.

Price, Miles D. (Disinfestation Ltd., Sussex, Eng.).
Insecticidal resins. A new concept in residual insect control.

Jucaitis, Francas, Patentees.

Wicker, Thomas H., Jr. and Newton H. Shearer, Jr., Patentees.
Method of repelling rodents comprising applying a member of the group consisting of an ethylene dinitrile and ethylene dicarboxylic acid esters. U.S. Pat. 2,933,429; April 19, 1960. 2 p.

National Pest Control Association, Elizabeth, N.J.

Virginia-Carolina Chemical Corporation, Richmond, Va., Patentee.
(Inventors: Manlio Arthur Manzelli, Virgil Hjalmar Young, Jr. and Charles Lichtenberg Harowitz).

Jezl, James L., Patentee.
Phenol salts of polyesteramines and their use as fungicides or rodent repellents. U.S. Pat. 2,957,850; October 25, 1960. 2 p.

Bruce, Willis Nels, Patentee.
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