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.
Best Available Copy
The Prevention of Deterioration Center operates with the support of the Army, Navy, and Air Force under contract between the National Academy of Sciences-National Research Council and the Office of Naval Research.

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Prevention of Deterioration Center
Division of Chemistry and Chemical Technology
National Academy of Sciences-National Research Council

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F-124

G-5930(1)

G-5974

G-6473

G-6670

G-6770

G-6922

G-6996

G-7545

G-7731

I.G. Farbenindustrie Aktiengesellschaft, Frankfurt, Ger.
[Process for protecting wood against fire and pests].
U.S. Office of technical services. Publication Board Series

Spiller, D.
Toxicity of pentachlorophenol to the common house borer Anobium
punctatum De Geer. I. Residual contact and ovicidal action.

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

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.

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

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

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

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

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


0-8247(1) U.S. Fish and Wildlife Service (E.R. Kalmbach, Jack F. Welch and James B. DeWitt).
Rodenticides and rodent repellents. "Supplementary quarterly report, January-March 1952; ... to the Office of the Quartermaster general ... ". 1952.

Rodenticides and rodent repellents. "Supplementary quarterly report, April-June 1952; ... to the Office of the Quartermaster general ... ". 1952.


0-9931 Bracey, P. and F. Barlow.

0-10233 Giblin, J.F. and W.T. King.

Rodenticides, rodent repellents and deterrents. "Supplementary quarterly report, October-December, 1954; ... to the Office of the Quartermaster general ... ". 1954.

0-10747 Welch, Jack F.

0-10786 Harrow, E.M.

0-10966 Ballack, Ervin and James B. DeWitt.

0-11305 Gray, Z.E.
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

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
Basling, Newton P., Patentee.
Baumgartner, Luther L., Patentee.

Baumgartner, Luther L., Patentee.

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

Mayfield, Paul, Patentee.

Jones, Leonhard Ellwood, Patentee.

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

Ralston, Anderson W., 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, Gena S. and Ernest Neil Macallum, Patentees.

Link, Karl Paul, Patentee.

Newcomer, Jack S., Patentee.

Fredenburg, Robert E. and William E. Blasingar, Patentees.

Barone, Morton, Patentee.
3,4-methylenedioxyphenyl ethers as synergists for pyrethrins. U.S. Pat. 2,764,517; September 25, 1956. 2 p.
Composition comprising copper salts of fluorine and arsenic and fibrous materials containing same. U.S. Pat. 2,772,199; November 27, 1956. 4 p.


Morpholine derivative. U.S. Pat. 2,774,758; December 18, 1956. 2 p.


Rodent repellent material containing dodecylamine acetate. U.S. Pat. 2,822,296; February 4, 1958. 8 p.


Protecting objects from rodent attack. U.S. Pat. 2,824,826; February 25, 1958. 5 p.

FDC-33701 Fisher, R.C. (Gt. Brit. Forest Products Research Laboratory, Prince Risborough, Eng.).


FDC-34168 Frey, Elaine O. and William E. Bissinger, Patentees.

FDC-34174 Jucaitis, Pranas, Patentee.

FDC-34707 Jucaitis, Pranas, Patentee.

FDC-34934 Harker, Robert J., Patentee.

FDC-35026 Goodhue, Lyle D., Patentee.


FDC-36253 Weeks, James R. (Drake University, Des Moines, Iowa).


FDC-37215 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.).

Jucaitis, Prancas, Patentee.

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 Rialmar 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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The Prevention of Deterioration Center, organized in 1945, resides within the Division of Chemistry and Chemical Technology. Formed originally at the request and with the support of the Departments of Navy and Army, and later the Air Force, it was a continuation of the wartime OSRD-NDRC Tropical Deterioration Information Center. The Center is charged with responsibility to assist the U.S. Department of Defense and other authorized agencies interested in combating the impairment and deterioration of materials and equipment, due to effects of the environment.