



Wood Preservative/Metal Corrosion Inhibition Treatment

*For more information
contact:*

**Office of Technology
Management**

www.otm.msstate.edu

p: 662-325-9263

OTM #: 0324

Mississippi State University currently seeks companies interested in commercializing a wood preservative/metal corrosion inhibition treatment. Untreated wood can be damaged through exposure to rain, insects, and fungus. Many types of wood preservatives are on the market to deal with this problem. The prevailing method to protect against deterioration of a structure is to inject preservatives into the internal cavities. Researchers at Mississippi State University have developed and patented (US Patent 7,195,823) a technology that creates a unique method for combating wood and metal corrosion. This breakthrough allows individuals to protect wood and metal members not only at the groundline, but also at the joints. Users of this technology would be any individual who needs to protect wood and metal from exposure to environmental elements.

Uses/Applications

The wood preservative pad can be used in a wide variety of structures such as fences, decks, houses and the like. With the use of the preservative pad, structures can be protected from elements such as bacteria, insects, and weather conditions.

Advantages

- A preservative pad can be fitted between the joints of the wood and/or metal member whereas past inventions only protected structures at the groundline.
- Useful in a wide variety of structures.

Technology

A felt pad containing preservatives protects wood and/or metal pieces from biological and/or physical deterioration. The main areas of concern are the joints, fastener points, check and splits, and tops on timber piles. The treated pad is placed between the joints of the wood and/or metal pieces and does not have to be replaced, but can be reactivated with additional preservatives.

Inventors

Dr. Terry Amburgey is a professor in the department of forest products at MSU. Dr. Amburgey has authored over 120 publications, including five patents (2 additional patents in process) and has achieved university honors such as the 1986 Faculty Achievement Award, Outstanding Faculty Member in the department (5 years), and appointment as a Distinguished Professor. In 2004, he received the American Wood-Preservers' Association Award of Merit, the association's highest honor. Dr. Michael Barnes is also a professor in the department of forest products at MSU and Mr. Michael Sanders is a research associate in the department. Mississippi State University is one of ten colleges receiving accreditation by the Society of Wood Science and Technology for forest products curriculum.