

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : B27K 3/02	A1	(11) International Publication Number: WO 99/42264 (43) International Publication Date: 26 August 1999 (26.08.99)
(21) International Application Number: PCT/US98/03265 (22) International Filing Date: 20 February 1998 (20.02.98) (71) Applicant: BATTELLE MEMORIAL INSTITUTE [US/US]; Pacific Northwest Division, Intellectual Property Services, P.O. Box 999, Richland, WA 99352 (US). (72) Inventors: VAN VORIS, Peter; 2306 Inverness Court, Rich- land, WA 99352 (US). CATALDO, Dominic, A.; 908 South Nelson Street, Kennewick, WA 99336 (US). BUR- TON, Frederick, G.; 90 Lakeview Drive, Stansbury Park, UT 84074 (US). (74) Agent: ZIMMERMAN, Paul, W.; Battelle Memorial Institute, Pacific Northwest Division, Intellectual Property Services, P.O. Box 999, Richland, WA 99352 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: CONTROLLED RELEASE DEVICE FOR THE PRESERVATION OF WOODEN STRUCTURE PROXIMATE SOIL (57) Abstract A method and device are disclosed which prevent the decay and deterioration of wooden objects caused by pests by using a controlled release device. This controlled release device utilizes polymers which incorporate pesticides. In the disclosed method, the controlled release device is placed proximate with the wood of the wooden object. The pesticide is gradually released from the device and absorbed into the wood structure. The pesticide absorbed by the wood creates a barrier or an exclusion zone to penetration by insects. The controlled release device maintains a minimal effective level of pesticide in the barrier or exclusion zone for a predetermined period of time.		