

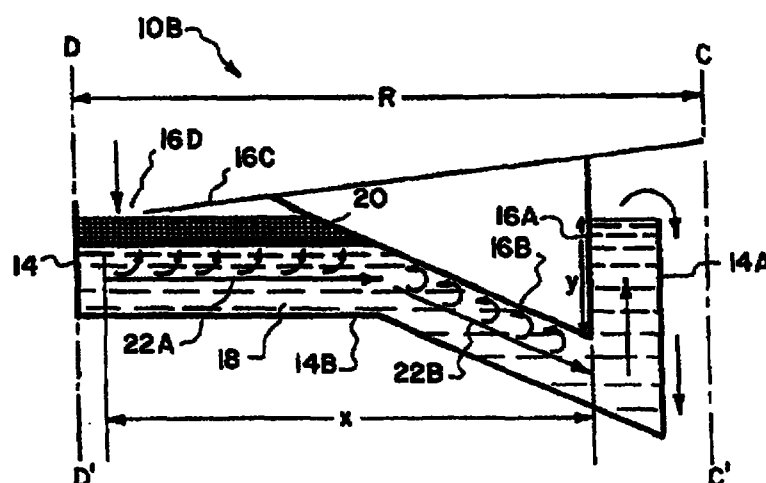
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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : E03D 9/00		A1	(11) International Publication Number: WO 97/15735
			(43) International Publication Date: 1 May 1997 (01.05.97)
(21) International Application Number: PCT/US96/17187		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), 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).	
(22) International Filing Date: 25 October 1996 (25.10.96)			
(30) Priority Data: 08/548,281 25 October 1995 (25.10.95) US			
(60) Parent Application or Grant (63) Related by Continuation US 08/548,281 (CIP) Filed on 25 October 1995 (25.10.95)		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
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(54) Title: HORIZONTAL-FLOW OIL-SEALANT-PRESERVING DRAIN ODOR TRAP



(57) Abstract

Improvements in retention of the oily liquid sealant (20) in an oil-sealed odor trap (10B), for drain applications such as a waterless urinal or anti-evaporation floor drain, are accomplished by making the liquid flow path (22A, 22B) substantially horizontal as a departure from conventional practice of substantially vertical flow. The trap (10B) is structured to realize the substantially horizontal liquid flow path (22A, 22B) and to locate the flow path immediately beneath the sealant layer (20) or beneath a baffle portion (16B) that is sloped such that stray sealant droplets migrating upwardly to the upper surface of the flow path due to their buoyancy will be recaptured and returned to the main sealant layer (20). To accomplish substantially horizontal flow (22A, 22B), the entry compartment can be made to have entry (16D) and exit openings substantially offset from each other. The baffle between the entry compartment and the discharge compartment, which has traditionally been made entirely vertical, is made to have a non-vertical portion (16B) that is preferably sloped for sealant recovery. A sealant sheltering region can be provided in the vicinity of the entry region to prevent catastrophic loss of sealant in the event of high pressure water flushing.