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(21) International Application Number: PCT/US96/01380 (22) International Filing Date: 31 January 1996 (31.01.96) (30) Priority Data: 08/381,443 31 January 1995 (31.01.95) US (71) Applicant (for all designated States except US): T F PURIFINER, INC. [US/US]; Suite 100, 3020 High Ridge Road, Boynton Beach, FL 33426 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): LEFEBVRE, Byron [US/US]; Suite 100, 3020 High Ridge Road, Boynton Beach, FL 33334 (US). (74) Agents: STEELE, J., Rodman, Jr. et al.; Quarles & Brady, 4th floor, 222 Lakeview Avenue, P.O. Box 3188, West Palm Beach, FL 33402-3188 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, 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 (AZ, BY, KG, KZ, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, 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: OIL RECLAMATION DEVICE WITH EVAPORATOR BASE AND HEAD MOUNTED FILTER**(57) Abstract**

An oil reclamation device includes an evaporator head (11) and base (12) and defines an evaporator chamber (6) between them. An upwardly vertical extending heating element (18) is disposed within the evaporator base for heating oil containing contaminants within the evaporator chamber to evaporate light contaminants (e.g., water, fuel, or antifreeze) in the oil. A vent (34) extends from the evaporator chamber through the head, and an oil discharge conduit (40) is formed in the base. An oil inlet conduit (15) feeds oil from the head toward the evaporator chamber, preferably through a plurality of substantially evenly spaced passages (32) formed in the head to provide flow of oil in distinct spaced streams to impact a portion of a generally annular frustoconical wall element (28, 36) extending upwardly from the base toward the head. An oil filter (45) having a density differential between an outer canister (52) and an inner central mandrel (53) is mounted on the head for removing particles from the oil before it is refined.

