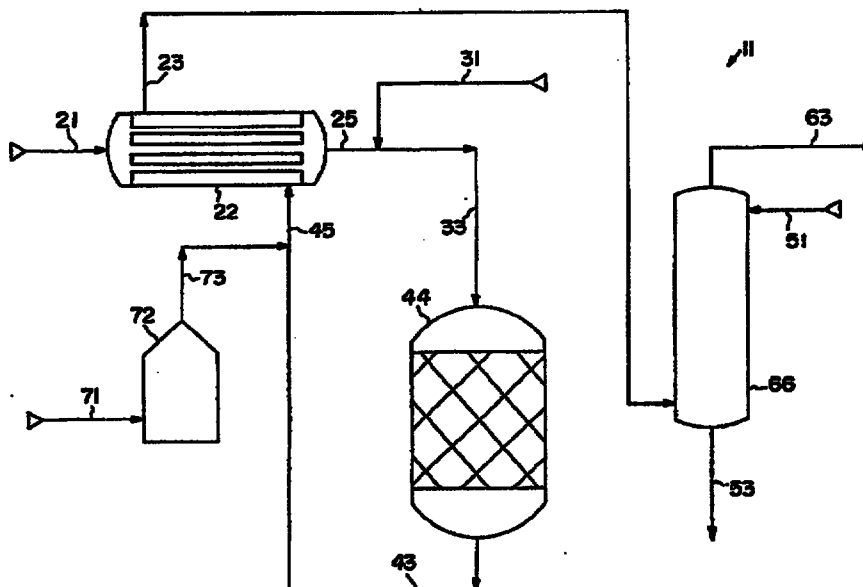


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(21) International Application Number: PCT/US96/07153 (22) International Filing Date: 17 May 1996 (17.05.96) (30) Priority Data: 08/467,177 6 June 1995 (06.06.95) US (71) Applicant: AMOCO CORPORATION [US/US]; Law Dept., Mail Code 1907A, 200 East Randolph Drive, P.O. Box 87703, Chicago, IL 60601 (US). (72) Inventors: ABRAMS, Kenneth, J.; 1195 Hobson Mill Drive, Naperville, IL 60540 (US). BELMONTE, Frank, G.; 5603 N. Redwood, Norwood, IL 60631 (US). OPPENHEIM, Judith, P.; 106 Port Royal Way, Pensacola, FL 32501 (US). (74) Agent: NEMO, Thomas, E.; Amoco Corporation, Law Dept., Mail Code 1907A, 200 East Randolph Drive, P.O. Box 87703, Chicago, IL 60601 (US).			(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, 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, 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). Published <i>With international search report.</i>

(54) Title: CATALYTIC VENT GAS TREATMENT SYSTEM FOR ABATEMENT OF VOLATILE CHEMICAL EMISSIONS



(57) Abstract

An integrated process of vent gas treatment for abatement of carbon monoxide and volatile organic compound emissions from a chemical process plant is provided, and includes provisions for catalytic oxidation of organic pollutants with dioxygen in a vent gas stream over a solid oxidation catalyst (44), means for supplying an amount of combustible fluid (31) into the vent gas stream upstream of the oxidation to facilitate catalytic oxidation of the organic pollutants; and means for controlling the amount of combustible fluid being supplied by the supplying means, the controlling means being arranged to provide sufficient reactants for the catalytic oxidation to maintain suitable reaction temperatures in accordance with the present invention.