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- Designated Contracting States: BE CH DE FRIT LINL SE AT
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- Designated Contracting States: GB
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- Method for processing of by-products of the refining of oils and fats.
- f) To avoid environmental objections in discarding byproducts of refining and processing of fatty oils, fats or mineral oils, or other materials, especially those containing alkali metal ions or salts, such by-products are combusted with excess air or oxygen, preferably in a fluidized bed oven, using a bed material having a low silicon content, particularly those consisting mainly of titanium, calcium and/or aluminium oxides, at 600-950°C, preferably 800-850 °C. The organic materials in the by-products are thereby converted into products which can be discharged without problems; the exhaust gases contain only low amounts of carbon monoxide and nitrogen oxides. By passing the combustion gases through a heat-exchanger, the heat generated can be used, e.g. to preheat the excess air for the process or to generate steam or heated water, which can be used economically in other parts of the plant. The process is particularly suitable for the combustion of soapstock, the water content of which has been reduced, e.g. by evaporation, if necessary.



EUROPEAN SEARCH REPORT

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	DOCUMENTS CONS	SIDERED TO B	E RELEVANT	r	
Category	Citation of document wi of rele	th indication, where ap vant passages	ppropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
Х	FR-A-2 268 758 * Page 1, li lines 4-15; p page 4, line 1 - page 6, line	nes 1-7; age 3, 1 3; page 5,	page 2, ine 16 -	1,7,1	F 23 G 7/00 F 23 G 5/00
Y				2-6,8- 10,15, 16	
Y	DE-C- 551 449 * Page 1, lines 2, lines 43-49,	1-31, 41-4	14; page	2-4,9, 10	
Y	FR-A-2 138 173 * Page 1, lines 38-40; page	 (HERCULES) nes 1-3;	page 3,	5,6,8	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
A	EP-A-0 003 831 * Page 1, lin lines 5-12; page	nes 1-7:	page 3, 10-22 *	12	F 23 G
А	FR-A-2 056 634 POWER COMPANY) * Page 8, lin line 39 - page 15, lines 31-33	nes 19-22;	page 8,	12	·
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	The present search report has b	een drawn up for all cl	aims		
Place of search THE HAGUE 29-03-1984			tion of the search 3 – 1984	COMEL	Examiner E.
X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background E: earlier pate after the fill D: document of combined with another document of the same category A: technological background				nt document, b ng date iited in the app iited for other r	ring the invention out published on, or lication easons out family, corresponding



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	DOCUMENTS CONS	Page 2			
ategory	Citation of document wi of rele	th indication, where app vant passages	ropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Ci. 3)
A	CH-A- 473 359 * Column 1, lin lines 40-51; 28-36 *			1-6,1 -14	2
A	US-A-4 071 612	 (WEYER et	al.)		
A	HÜTTE TASCHENBU EISENHÜTTENLEUT 1961, page 545, Wilhelm Ernst & DE. * Page 545, par	E, 5th edit Verlag von Sohn, Berl			
					TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
i.	The present search report has t	peen drawn up for all cla	ims		
Place of search Date		Date of completing 29-03	completion of the search 9-03-1984 COM		Examiner E.
Y: par doo A: tec O: nor	CATEGORY OF CITED DOCL ticularly relevant if taken alone ticularly relevant if combined w cument of the same category hnological background n-written disclosure ermediate document		E: earlier pater after the filli D: document c L: document c	nt document, ng date ited in the ap ited for other	lying the invention but published on, or plication reasons int family, corresponding