

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 839 891 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
29.07.1998 Bulletin 1998/31

(51) Int Cl.⁶: **C10G 21/28**, C09D 11/02,
 C08K 5/01, C08L 21/00

(43) Date of publication A2:
06.05.1998 Bulletin 1998/19

(21) Application number: **97500182.7**

(22) Date of filing: **30.10.1997**

(84) Designated Contracting States:
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
 NL PT SE**
 Designated Extension States:
AL LT LV RO SI

(72) Inventors:
 • **Moreno, Rodriguez, Juan Miguel**
 28047 Madrid (ES)
 • **Monjas, Serrano, Carlos**
 28035 Madrid (ES)

(30) Priority: **31.10.1996 ES 9602311**
28.10.1997 ES 9702226

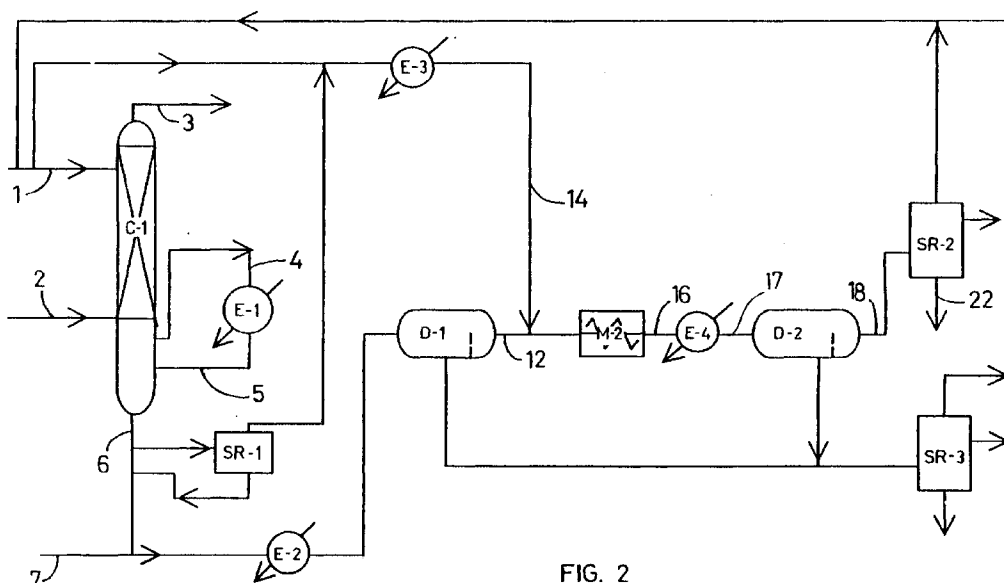
(74) Representative: **Hernandez Covarrubias, Arturo**
 c/o Clarke, Modet & Co.,
 Avda. de los Encuartes 21
 28760 Tres Cantos (Madrid) (ES)

(71) Applicant: **REPSOL PETROLEO S.A.**
 E-28046 Madrid (ES)

(54) **Process for obtaining aromatic oils having a polycyclic aromatics content of less than 3% which are useful as process oils**

(57) Process for obtaining aromatic oils having a polycyclic aromatic compounds content of less than 3 %, useful as rubber extenders, from the mixed extract flow obtained in the manufacture of lubricant bases, which comprises cooling the flow of mixed extracts to render non-polyaromatic components insoluble, settling to bring about separation of the bases, total or partial redissolution in solvent of the light phase obtained in

said settling, cooling to effect separation of the non-pol-yaromatic components, and settling to recover the light phase having a low polyaromatic compound content. A hydrocarbonated stream, having an initial boiling point greater than 200°C, to regulate the solvent/solute rate and increase the production capacity of aromatic oils with a PCA content of less than 3%, may be added to the starting mixed extract flow.

**FIG. 2****EP 0 839 891 A3**



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 50 0182

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	EP 0 043 267 A (UNION CARBIDE CORP) 6 January 1982 * abstract; figure 1 * * page 7, line 26 - page 9, line 16 * * claims *	1	C10G21/28 C09D11/02 C08K5/01 C08L21/00
D,A	EP 0 417 980 A (BP OILTECH GMBH) 20 March 1991 * abstract; figure 1 * * page 2, line 1 - line 11 * * page 3, line 3 - line 45 * * claims; examples *	1,13-17	
A	FR 2 685 705 A (BP FRANCE) 2 July 1993 * page 1 - page 4 * * claims *	13-17	
A	EP 0 362 446 A (UNION CARBIDE CORP) 11 April 1990		
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C10G C09D C08K B01D C07C
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		5 June 1998	Lo Conte, C
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03.82 (P04C01)