



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/US87/02322 (22) International Filing Date: 9 September 1987 (09.09.87) (31) Priority Application Number: 908,077 (32) Priority Date: 16 September 1986 (16.09.86) (33) Priority Country: US (71) Applicant: THE LUBRIZOL CORPORATION [US/ US]; 29400 Lakeland Blvd., Wickliffe, OH 44092 (US). (72) Inventor: SALOMON, Mary, Frisinger ; 3546 Cum- mings, Cleveland Heights, OH 44118 (US). (74) Agents: COLLINS, Forrest, L. et al.; The Lubrizol Cor- poration, 29400 Lakeland Blvd., Wickliffe, OH 44092 (US).</p>		<p>(81) Designated States: AT (European patent), AU, BE (Eu- ropean patent), BR, CH (European patent), DE (Eu- ropean patent), DK, FI, FR (European patent), GB (European patent), IT (European patent), JP, LU (European patent), NL (European patent), NO, SE (European patent). Published <i>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.</i> (88) Date of publication of the international search report: 19 May 1988 (19.05.88)</p>
<p>(54) Title: N-SUBSTITUTED THIO ALKYL PHENOTHIAZINES (57) Abstract Phenothiazine derivatives which are N-substituted and which contain an additional sulfur molecule in the N substi- tuent.</p>		

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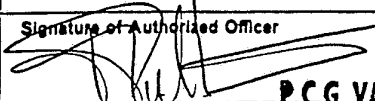
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INTERNATIONAL SEARCH REPORT

International Application No **PCT/US 87/02322**

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC		
IPC ⁴ : C 07 D 279/22; C 09 K 15/30; C 10 M 135/36		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
IPC ⁴	C 07 D; C 09 K; C 10 M	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT ⁹		
Category ⁹	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
Y	Journal of Medicinal Chemistry, volume 30, no. 9, 1987, American Chemical Society, M.W. Harrold et al.: "Charged analogues of chlorpromazine as dopamine antagonists", pages 1631-1635 see pages 1631-1632	1
Y	US, A, 3523910 (D.R. RANDCIL) 11 August 1970 see column 1, lines 58-72; column 2, lines 1-18; column 3, lines 70-75; column 4, line 1	1,13-15

<p>⁹ Special categories of cited documents: ¹⁰</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"A" document member of the same patent family</p>		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
19th February 1988	14 APR 1988	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	 P.C.G. VAN DER PIJPEN	

**ANNEX TO THE INTERNATIONAL SEARCH REPORT
ON INTERNATIONAL PATENT APPLICATION NO.**

US 8702322

SA 18887

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 30/03/88. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A- 3523910	11-08-70	NL-A- 6706357 CH-A- 478137 US-A- 3489749 DE-A- 1695018 BE-A- 698000 GB-A- 1140089 FR-A- 1521950	07-11-67 15-09-69 13-01-70 08-04-71 03-11-67
