

(12) **EUROPEAN PATENT APPLICATION**

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(22) Date of filing: **01.05.80** **C 07 D 319/06, C 07 D 309/18**
A 61 K 7/46

<p>(30) Priority: 04.05.79 GB 7915620</p> <p>(43) Date of publication of application: 12.11.80 Bulletin 80/23</p> <p>(88) Date of deferred publication of search report: 28.01.81</p> <p>(84) Designated Contracting States: AT BE CH DE FR GB IT LI NL SE</p>	<p>(71) Applicant: BUSH BOAKE ALLEN Limited Blackhorse Lane Walthamstow London E17 5QP(GB)</p> <p>(72) Inventor: Ferber, Gerald John 18, Sherwood Road Barkingside Ilford Essex(GB)</p> <p>(72) Inventor: Botten, Jacqueline Ann 79 Seymour Road Romford Essex(GB)</p> <p>(72) Inventor: Mellor, Michael 90, Chesterton Road Cambridge, CB4 2AP(GB)</p> <p>(74) Representative: Savidge, Roger Gordon Madgwick et al, c/o Albright & Wilson Limited 1 Knightsbridge Green London SW1X 7QD(GB)</p>
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(54) **Odorous products; preparation thereof.**

(57) The dihydropyran and dioxan which may be obtained by the Prins reaction between allo-ocimene and formaldehyde have been discovered to possess attractive floral odours. They are useful as ingredients of compounded perfumery compositions. Three novel triene alcohols are also produced by the Prins reaction which find use as intermediates in the preparation of the dihydropyrans and dioxans. The cis isomer of the dihydropyran may be converted into the trans isomer. The dihydropyran wherein at least 10% of the compound takes the form of the trans isomer is novel.



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.



LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. 1-8:Perfumery compositions
2. 9-10:Two individual compounds per se out of those used in claims 1-8.
3. 11-13:Process for preparation of one of the two types of compounds used in claims 1-8.
4. 14-16:Three individual intermediaires used in claim 13, per se.
5. 17-18:Process for isomerising one isomer of one type of compounds used in claims 1-8.

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims
- ☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims: 1-13, 17-18
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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EUROPEAN SEARCH REPORT

Application number

EP 80 30 1436

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
DX	CHEMICAL ABSTRACTS, vol. 88, no. 1, January 2, 1978, page 604, abstract 7073b. Columbus, Ohio, USA K. TAKABE et al. "Reactions of terpenoids. IV. The Prins reaction of (4E, 6Z)- or (4E, 6E)-alloocimene with formaldehyde" & Nippon Kagaku Kaishi, 1977, (8), 1253-5.	9-13	C 11 B 9/00 C 07 D 319/06 309/18 A 61 K 7/46
	DE - A - 1 467 512 (SCHERING) * Claims 1-3; examples 2,3 *-3	1-8	TECHNICAL FIELDS SEARCHED (Int. Cl. 2)
	DE - A - 1 908 756 (NAARDEN) * Claims 1,2; page 1, paragraph 1 to page 2, paragraph 3; examples II-IV; formula 1-4I*	1-8	C 11 B 9/00 C 07 D 309/18
	CH - A - 604 560 (FIRMENICH) * Claim; examples 1-3 *	1-8	CATEGORY OF CITED DOCUMENTS
	CH - A - 414 674 (L. GIUAUDAN) * Claim; page 1, lines 1-38 *	1-8	X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
	GB - A - 1 079 421 (A. BOAKE et al.) * Page 1 *	1	&: member of the same patent family, corresponding document
	US - A - 3 455 957 (A. CAHN et al.) * Claim 1; column 1, lines	1-8	
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
The Hague	11-11-1980	VAN MOER	



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EUROPEAN SEARCH REPORT

0018833

Application number

EP 80 30 1436

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	43-65; column 2, lines 21-65 * --		
	FR - A - 1 310 750 (FIRMENICH) * Abstract, points 1,4; examples 4-7 *	1-8	
	--		TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
	BE - A - 673 628 (INTERNATIONAL FLAVORS & FRAGRANCES) * Claim 1; page 9, lines 26-31; example 1 *	1-8	
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	US - A - 3 423 430 (A. CAHN) * Claim 1; column 1, lines 31-65; examples 2,8 *	1-8	
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	HOUBEN-WEYL, Methoden der organischen Chemie, 1966, Georg Thieme Verlag, Stuttgart, DE Band VI/4, Sauerstoffverbindungen I, teil 4. * Page 92 *	12	
