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EUROPEAN PATENT APPLICATION

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C 22 C 32/00

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⑧⁴ Designated Contracting States: **AT DE FR GB IT NL**

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⑤⁴ **Dispersion strengthened mechanically-alloyed aluminum-based alloy.**

⑤⁷ A dispersion strengthened mechanically alloyed Al-Cu-Mg alloy is provided characterised by a combination of high tensile yield strength in the transverse direction, superior resistance to stress corrosion cracking at high strength, good fracture toughness and good ductility.

The alloy consists of 0,5 to 6% copper, 0,5 to 3% magnesium, 0,1 to 2,5% carbon, up to 3% of oxygen, up to 1% manganese, up to 0,5% iron, the balance aluminium, and contains further oxide and carbide dispersoids in an amount of 1 to 10% by volume.

EP 0 079 749 A3



European Patent
Office

EUROPEAN SEARCH REPORT

0079749

Application number

EP 82 30 5956

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. ³)
A	FR-A-2 038 523 (MATVEEV et al.) * Claims 1-4 *	1	C 22 C 1/10 B 22 F 9/04 C 22 C 32/00
A	DE-A-2 431 646 (MAHLE GmbH) * Claims 1,2 *	1	
A	DE-B-2 253 282 (MAHLE GmbH) * Claim 1 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			C 22 C 1/10 B 22 F 9/04 C 22 C 32/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20-01-1984	Examiner LIPPENS M.H.
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 C : 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	