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54 **Fe-Si-Al alloy magnetic thin film and method of manufacturing the same.**

57 A Fe-Si-Al alloy magnetic thin film contains a limited oxygen content in the range 0.17 to 0.46 wt % and has excellent magnetic and mechanical properties.

The film is made by sputtering in an inert gas atmosphere containing a controlled concentration of oxygen amounting to 400 to 1500 volumetric ppm if the sputtering target is a cast film, while the oxygen content is reduced by an amount dependent on the initial concentration of oxygen in the sputtering target when the target is a sintered target containing oxygen.

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**EUROPEAN SEARCH
REPORT**

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.5)
X	EP-A-0 159 028 (SONY CORP.) * the whole document ** - - -	1-4	H 01 F 10/14 H 01 F 41/18
A	EP-A-0 159 028 (& JP-A-60 220 914 (SONY CORP.)) - - -	5	
D,A	PATENT ABSTRACTS OF JAPAN vol. 10, no. 69 (E-389)(2126) 18 March 1986 & JP-60 218 821 (SONY K.K.) 1 November 1985 * abstract ** - - - - -	1,5	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H 01 F
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		25 November 91	DECANNIERE L.J.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			