國立台灣大學技術行銷表

台大案號: 06A-0910 ZO (由產學組填寫)

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產品/技術名稱	具垂直磁異向性之單層鐵磁性合金薄膜
發明人/單位	陳勝吉、沈智隆、林哲平、孫達皇、郭博成、張慶瑞
產品/技術說明	本發明將 10 nm 厚之單層 FePt 合金薄膜經升溫速率 100℃/秒加熱至 700℃持溫 180 秒後,其垂直方向頑磁力(Hc」)大於 6000 Oe、飽和磁化量(Ms)大於 450 emu/cm³、垂直方向角形比(S」)大於 0.7、平均晶粒尺寸下降至 9.7 nm。
應用範圍	任何相關之磁記錄媒體。
	本發明可更進一步簡化膜層結構與降低製造成本,具有產品或技術之競爭性,並具有應用於垂直磁記錄媒體之可行性。
中场省刀 	本發明之平均晶粒尺寸和薄膜厚度比值趨近於 1,且磁區結構傾向孤立不連通,此有助於提升磁記錄密度及降低媒體雜訊,具備應用於超高密度垂直磁記錄媒體之潛力。
產品/技術 智財權保護方 式	(由技轉組填寫) 以報備方式 百行申請台灣、美國、阪洲 雪利

Marketing Abstract of NTU's Invention Disclosure

NTU's do	ocket no:	(由技轉室填寫)

TTO contact:	Tel:	e-mail:	
Title		ERROMAGNETIC THIN FILM WITH A AGNETIC ANISOTROPY	
Inventor (s)	Sheng-Chi Chen, Chih-Lung Shen, Ger-Pin Lin, Ta-Huang Sun, Po-Cheng Kuo, Ching-Ray Chang		
Brief Description	In the present invention, 10 nm was annealed wi	on-confidential information) single layered FePt film with thickness of the a thermal rate 100°C/sec to 700°C for	
	saturated magnetization of FePt film are large	ig, the perpendicular coercivity (Hc _{\perp}), (Ms) and perpendicular squareness (S _{\perp}) than 6000 Oe, 450 emu/cm ³ and 0.7 e grain size could be decreased to 9.7 nm.	
Fields of Application	Any related magnetic rec	ording media.	
Advantages	recording media and r competitiveness on mag	risting technologies) In further simplify the structure of magnetic educe the manufacturing cost. It possesses to recording product or technology, and or perpendicular magnetic recording media.	
Market Potential	thickness of ferromagne promote the recording of due to its isolated magne	of the present invention is close to the ic layer. And the present invention can ensity and decrease the noise of media tic domains. Therefore, it has a potential a-high density perpendicular magnetic	
IP Right(s)			