U.S. PATENT DOCUMENTS

6,038,106	A	3/2000	Aboaf et al.	
6,075,360	A	6/2000	Mouchot et al.	
6,118,623	A	9/2000	Fatula, Jr. et al.	
6,230,389	B1 *	5/2001	Zhu	29/603.1
6,646,830	B2	11/2003	Biskeborn et al.	
6,970,331	B1	11/2005	He et al.	
7,118,814	B1	10/2006	Arnold et al.	
7,189,583	B2	3/2007	Drewes	
7,256,969	B1	8/2007	Arnold et al.	
7,450,353	B2	11/2008	Pappas et al.	
7,495,871	B1	2/2009	Nibarger et al.	
7,545,602	B1	6/2009	McKinstry et al.	
7,582,890	B2 *	9/2009	Ha et al.	257/9
2003/0107849	A1 *	6/2003	Ikarashi	360/324.1

OTHER PUBLICATIONS

Da Silva et al., "Zigzag-Shaped Magnetic Sensors", Applied Physics Letters, vol. 85, No. 24, Dec. 2004, pp. 6022-6024.

* cited by examiner