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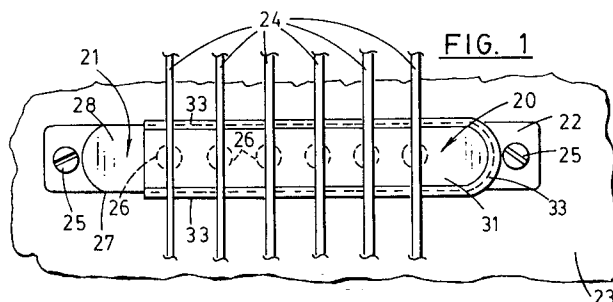
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54 **Modification device for string instrument pickup.**

57 A device (20;40;50;70;100;220;220A-220D) that modifies the operating characteristics (e.g., amplitude, frequency response, "sustain") of the output signal of an electromagnetic pickup (21;51;91;221) for a stringed musical instrument, such as a guitar with steel strings (24;54;74; 94;224) ; the modification device (20;40;50;70;100) comprises a thin, flat permanent magnet (31;41;61;81;101;220;220A-220D), preferably a sheet of resin impregnated with particulate permanent magnet material, that is magnetized transversely to its thin dimension. The permanent magnet (31;41;61;81; 101;220;220A-220D) covers most or all of the top or bottom surface of the electromagnet pickup (21;51;91;221), usually the top.

The signal modification device (20;40;50;70;100) may include one or more mounting elements (33;43;62-65;84,85, 90;104,105) for mounting the permanent magnet sheet on a pickup (21;51;91), if intended for addition to an existing pickup. In the simplest form the mounting element(s) may comprise a rim (33;43) on the permanent magnet or one or more steel plates (62-65;84,85,104,105) mounted on the magnet; the steel plate or plates further may modify the output signal of the pickup. For a signal modification device (220; 220A-220D) that is to be incorporated in a new pickup (221), no mounting elements may be required.



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EUROPEAN SEARCH REPORT

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EP 91 11 7311

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	US-A-4 320 681 (ALTILIO) * column 3, line 50 - column 4, line 50; figures 1-4, 6 *	1, 2, 8, 9 22, 23	G10H3/18
A	GB-A-1 396 824 (GIBSON INC.) * page 4, line 31 - line 117; figures 4A, 4B *	1, 13, 22	
A	US-A-3 983 777 (BARTOLINI) * column 4, line 29 - column 7, line 8; figures 1, 4 *	1, 22	
A	US-A-4 809 578 (LACE JR.) * column 3, line 24 - line 59; figure 1 *	1, 13, 14	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G10H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 06 APRIL 1992	Examiner PULLUARD R. J. P.
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 O : 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	