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Connecting means for electrical information containing signals and method for manufacturing the same.

A connecting means for electrical, information containing signals comprises an electrical conductor. The conductor consists along its whole connecting length at least partially of arranged carbon. Said carbon is arranged by means of a magnetic dc-fleld.

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Connecting means for electrical information containing signals and method for manufacturing the same.

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The invention relates to a connecting means for electrical, information containing signals, comprising an electrical conductor, and to a method for manufacturing the same.

Such connecting means are used in various areas of the technique. A known application is formed by the connecting lines in audio equipment, like the connecting lines of cd-players, loudspeaker lines and the internal signal lines in audio apparatus. Although the technical qualities of audio apparatus with respect to signal noise ratio, distortion and the like, are improved still further, in particular by the introduction of the cd-player, many users of these apparatus find also a still increasing impoverishment or increasing sterility of the sound. This is caused by the connecting means used in the known apparatus. The known connecting means consist of metal conductors, wherein information contained in electrical signals is lost. This information particularly relates to the location of the different sound sources in the sound image, by which the user is able to localize faithfully the sound sources in the sound image.

The invention aims to provide a connecting means of the above-mentioned kind wherein said disadvantage of the known connecting means is obviated.

To this end the connecting means according to the invention is characterized in that said electrical conductor consists at least partially of arranged carbon along its whole connecting length.

In this manner a connecting means is obtained, by which the complete signal can be transferred without any loss of information. It is noted that the term "to arrange" means in this specification to eliminate the disorder in the carbon.

The connecting means according to the invention can be used in different areas, for example as connecting line in audio and/or video apparatus. In particular in sound reproduction it is thereby obtained that all information present in the original sound image, is maintained whereby an extreme faithful reproduction is possible.

Another application of the connecting means according to the invention is as connecting line in measurement and control apparatus. Thereby also on this field signals can be measured and transferred without any loss of information.

The connecting means according to the invention can also be used in all internal signal connections in audio equipment for example.

Of course it is also possible to make the electrical conductor of the connecting means according to the invention of arranged carbon as a whole. According to the invention the electrical conductor of the connecting means is fully of partially made of carbon along its whole length. The carbon is arranged by means of a magnetic dc-field. To this end the connecting means is led for example through an annular coil supplied with direct current. The field strength H should be at least 4000 A/m and preferably is greater than 6000 A/m.

In this manner a connecting means is obtained wherein the conductor at least partially consisting of arranged carbon guarantees the transfer of all information in the original electrical signal. Experiments with an audio system partially equipped with connecting means according to the invention did show that a complete faithful reproduction is obtained, wherein the original spatial impression of the recording space is maintained.

It is noted that the term connecting means also covers electrical components, like carbon resistors. The metal connecting wires which are conventionally made of metal can be replaced fully or partially by carbon.

The invention is not restricted to the abovedescribed enbodiments which can be varied in a number of ways within the scope of the invention.

Claims

1. Connecting means for electrical, information containing signals, comprising an electrical conductor, characterized in that said electrical conductor consists at least partially of arranged carbon along its whole connecting length.

 Application of a connecting means according to claim 1 as connecting line in audio and/or video apparatus.

 Application of a connecting means according to claim 1 as connecting line in measurement and control apparatus.

4. Method for manufacturing a connecting means for electrical, information containing signals, comprising an electrical conductor, characterized in that said electrical conductor is at least partially made of carbon along its whole connecting length and in that said carbon is arranged by means of a magnetic dc-field.

5. Method according to claim 4, characterized in that the connecting means is led through an annular coil for arranging the carbon.

6. Method according to claims 4 or 5, characterized in that the magnetic field has a strength of field of at least 4000 A/m.

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EUROPEAN SEARCH REPORT

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Category		ndication, where appropriate,	Relevant	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	of relevant pa US-A-4 666 736 (K. * Whole document *		to claim 1-4	H 01 B 1/04
X	DE-A-1 471 364 (PL * Page 3; claims 1-		1-4	
Х	FR-A-2 075 706 (C. * Page 1; page 10, 1-12 *	S.M.) lines 22-31; claims	1-4	
				TECHNICAL FIELDS SEARCHED (Int. Cl.4)
				H 01 B
	The present search report has b	een drawn up for all claims		
TH	Place of search E HAGUE	Date of completion of the search 27–09–1988	DROU	Examiner JOT M.C.
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