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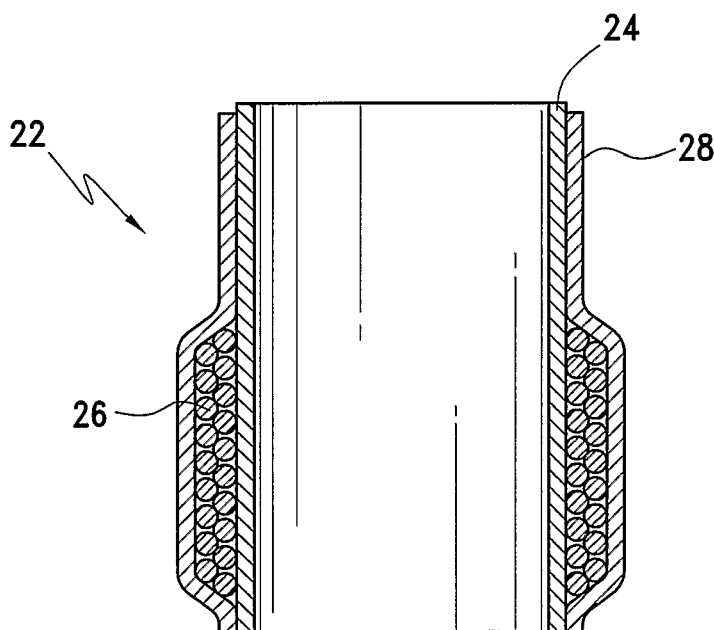
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ARMORED VOICE COIL ASSEMBLY FOR USE IN HIGH POWER LOUDSPEAKER APPLICATIONS



(57) Abstract: An armored voice coil assembly comprises a former that is impregnated with a curable resin, preferably polyimide resin. Voice coil wire is wound around the outside surface of the former and is then preferably encased with an outer layer of resin impregnated glass fabric wrapped around the voice coil windings, effectively enveloping the voice coil within inner and outer layers of fabric and resin. The armored voice coil assembly is then cured into a solid shape.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/29219

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8): H04R 9/06 (2007.01), H04R 11/02 (2007.01)

USPC: 381/410

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

USPC: 381/410

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 381/400, 409, 413; 360/264.7, 264.8, 265; 310/12, 13, 14 - term limited (see below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Pub West (PGPB,USPT,USOC,EPAB,BRS) terms: kevlar or (carbon adj fiber); ((liquid/gel) adj polyimide) with (resin/coating/impregnate/reinforcement); (voice adj coil); loudspeaker; (stiffener/stiffening); L3 and (sheath/sleeve/armor/protection/protect/cover/wrap/layer); (ribbon with conductor with end)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,721,435 B2 (BABB et al.) 13 April 2004 (13.04.2004) Figs. 1 & 3	1-20
Y	US 5,832,096 A (HALLI) 03 November 1998 (03.11.1998) col 9, ln 10-12	1-20
Y	US 2004/0191621 A1 (HELLER, JR.) 30 September 2004 (30.09.2004) Abstract (liquid polyimide coating)	1-20
Y	US 2002/0064292 A1 (ROMBACH et al.) 30 May 2002 (30.05.2002) Fig 3a; para [0044]	2, 4, 8, 10, 14, 16, 18
Y	US 4,539,442 A (PULS et al.) 03 September 1985 (03.09.1985) Fig. 1	14

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

07 January 2007 (07.01.2007)

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