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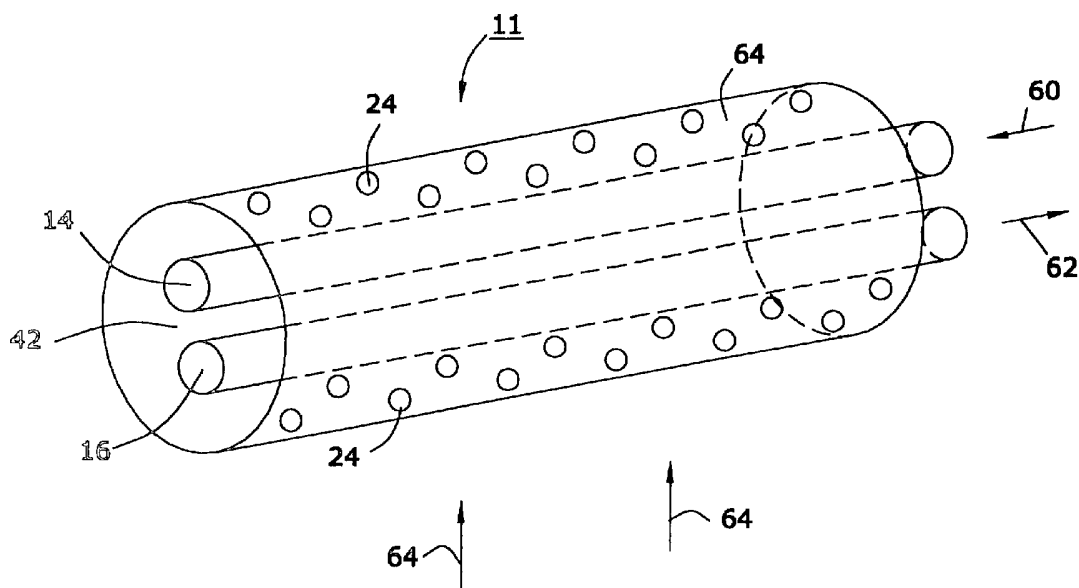
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[Continued on next page]

(54) Title: NANOMAGNETICALLY SHIELDED SUBSTRATE



(57) Abstract: A shielded substrate assembly that contains a magnetic shield with a layer of magnetic shielding material (24); the magnetic shield has a magnetic shielding factor of at least about 0.5. The magnetic shield contains nanomagnetic material with a mass density of at least about 0.01 grams per cubic centimeter, a saturation magnetization of from about 1 to about 36,000 Gauss, a coercive force of from about 0.01 to about 5,000 Oersteds, a relative magnetic permeability of from about 1 to about 500,000, and an average particle size of less than about 100 nanometers. In one embodiment, the nanomagnetic material contains magnetic material with a coherence length of from about 0.1 to about 100 nanometers.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,714,536 A (ZIOLO et al.) 03 February 1998, abstract.	1-178
A	US 5,889,091 A (ZIOLO et al.) 30 March 1999, see abstract.	1-178

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"O" document referring to an oral disclosure, use, exhibition or other means	
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