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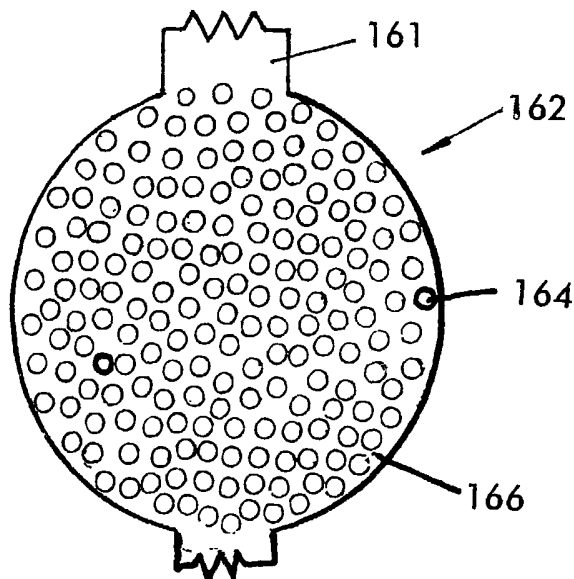
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(54) Title: ELECTRON EMITTER AND PROCESS OF FABRICATION



(57) Abstract: An electron emitter is formed by *in situ* growth from the vapor on catalyst clusters that are adhered by an adhesion layer to a conductive electrode. The emitter comprises hemispheroidal nanofiber clusters that emit electrons at low field strengths and high current densities, producing bright light by the interaction of the electrons and a fluorescent and/or phosphorescent film on an anode spaced across an evacuated gap. The nanofibers may be grown such that the nanofiber clusters are entangled, restricting movement of individual nanofibers.

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B. FIELDS SEARCHED		
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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A	GRÖNING O ET AL: "Field emission properties of carbon nanotubes" JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B: MICROELECTRONICS PROCESSING AND PHENOMENA, AMERICAN VACUUM SOCIETY, NEW YORK, NY, US, vol. 18, no. 2, March 2000 (2000-03), pages 665-678, XP012008101 ISSN: 0734-211X abstract page 666, right-hand column, paragraph 2 page 667, right-hand column, lines 8-26; figures 1a,1b,2a,2b ----- -/--	1,33
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.		
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° Special categories of cited documents :		
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Reder, M

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