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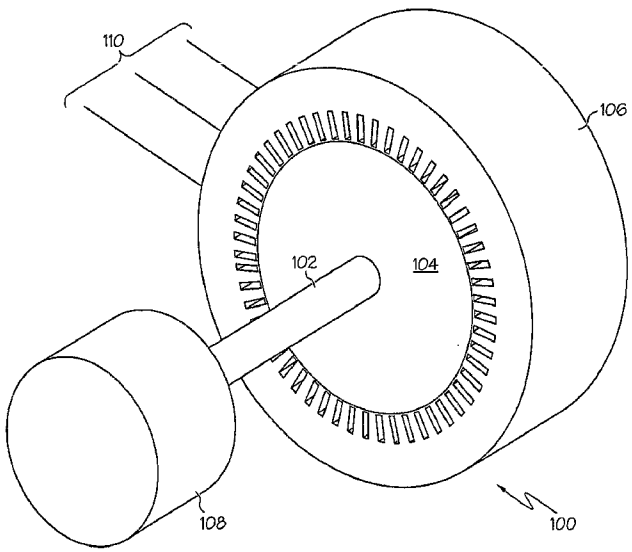
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(54) Title: SYSTEM AND METHOD FOR DIRECT LIQUID COOLING OF ELECTRIC MACHINES



(57) Abstract: A system is provided for cooling a stator coil (206) of a rotating machine. In one embodiment, and by way of example only, the system includes a stator core (202), a radial core opening (220), and a sleeve (204). The stator core (202) has an axially extending slot (216) formed therein, an outer circumferential surface (214), and an inner circumferential surface (212). The radial core opening (220) extends from the stator core outer circumferential surface (214) to the axially extending slot (216). The sleeve (204) is disposed within the axial slot (216) and configured to surround the stator coil (206). The sleeve (204) has a cooling fluid supply port (226) formed therein that is aligned with the radial core opening (220).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. H02K3/24

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)
H02K

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 practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 722 152 A (WESTINGHOUSE ELECTRIC INT CO) 19 January 1955 (1955-01-19)	1-8,10
Y	page 4, line 78 - line 101; figures 1,4,4a page 5, line 78 - line 89 page 4, line 20 - line 43 page 4, line 121 - line 130	9
A	EP 1 199 787 A (MITSUBISHI ELECTRIC CORP [JP]) 24 April 2002 (2002-04-24)	9
Y	paragraph [0088]	9

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

☒ See patent family annex.

* Special categories of cited documents :

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Date of the actual completion of the international search	Date of mailing of the international search report
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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