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- (71) Applicant (for all designated States except US): **CUMMINS FILTRATION IP INC.** [US/US]; 1400 73rd Avenue NE, Minneapolis, MN 55432 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **SOUTH, Kevin, C.** [US/US]; 3464 Gra Mar Drive, Cookeville, TN 38506 (US). **SHIMPI, Abhijit** [IN/US]; 135 N. Dixie Avenue, #C2, Cookeville, TN 38506 (US). **BAGCI, Ismail, C.** [US/US]; 600 Enclave Pointe, Cookeville, TN 38506 (US). **CURRIER, Lee** [US/US]; 495 Lone Oak Drive, Cookeville, TN 38501 (US).

- (74) Agent: **SCHUMANN, Michael, D.**; Hamre, Schumann, Mueller & Larson, P.C., P.O. Box 2902, Minneapolis, MN 55402 (US).
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[Continued on next page]

(54) Title: CENTERTUBE FOR A COMBINATION FULL FLOW AND BYPASS FILTER APPARATUS

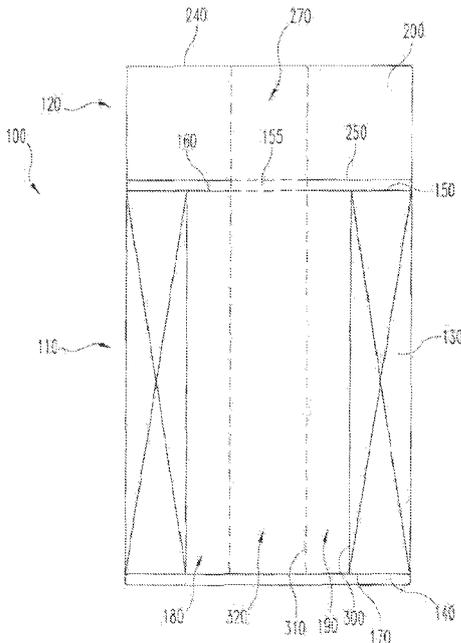


Fig. 2

(57) Abstract: A filter apparatus for filtering fluid in an internal combustion engine, the filter apparatus including annular full flow filter media extending axially between a first end and a second end. The full flow filter media surrounds a reinforcing member which extends axially between the first end and the second end and includes a plurality of axially spaced apart circumferential connecting segments. The circumferential connecting segments extend between a plurality of substantially axially extending ribs which connect the reinforcing member to a radially inwardly spaced bypass tube. The reinforcing member also includes a plurality of flow apertures defined by the connecting segments and the ribs.



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

eKOMPASS(KIPO internal) & Keywords: filter, full flow, bypass, disk, rib

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5695637 A1 (JIANG; ZEMIN et al.) 09 December 1997 See Abstract and Figs. 1-13.	1-9
Y	US 5665231 A1 (LANGSDORF; BRIAN JAMES et al.) 09 September 1997 See Abstract and Figs. 1 and 12.	1-9
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A	US 5447627 A1 (LOAFMAN; CHRISTOPHER L. et al.) 05 September 1995 See Abstract and Figs. 1-4.	1-9

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

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Authorized officer

Han Seong Ho

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