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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : G01F 1/84 — A1

(11) International Publication Number: WO 00/49371

(43) International Publication Date: 24 August 2000 (24.08.00)

(21) International Application Number: PCT/US00/02725

(22) International Filing Date: 2 February 2000 (02.02.00)

(30) Priority Data:
09/250,203 16 February 1999 (16.02.99) US

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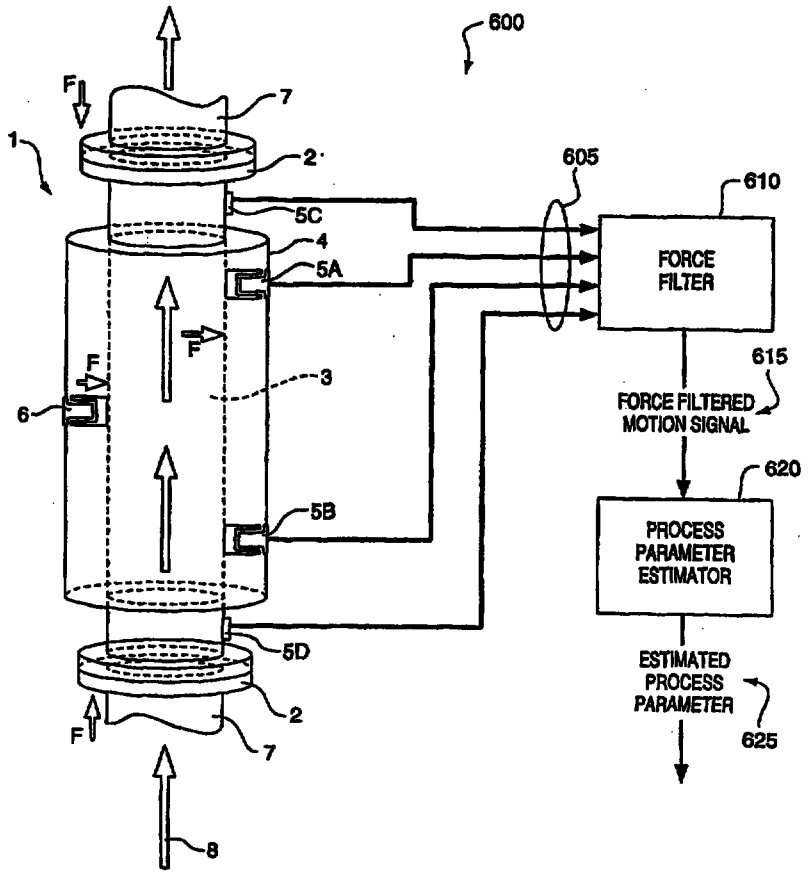
(81) Designated States: AU, BR, CA, CN, ID, IN, JP, KR, MX, PL, RU, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: APPARATUS AND METHOD FOR DETECTING VIBRATIONS, E.G. IN A CORIOLIS MASS-FLOWMETER, USING NOISE FILTERING

(57) Abstract

A process parameter associated with a material contained in a vibrating structure (3) is estimated. A plurality of motion signals (605) representing motion at a plurality of locations (5A–5D) of the vibrating structure are received. The received plurality of motion signals (605) are force filtered (1020) with a force filter (610) to produce a force–filtered motion signal (615) that discriminates motion attributable to a force of interest among a plurality of forces acting on the vibrating structure. A process parameter (625) associated with the material contained in the vibrating structure (3) is estimated from the force filtered motion signal.