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— *of inventorship (Rule 4.17(iv))*

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(54) **Title:** FRICTION DRIVE DEVICE

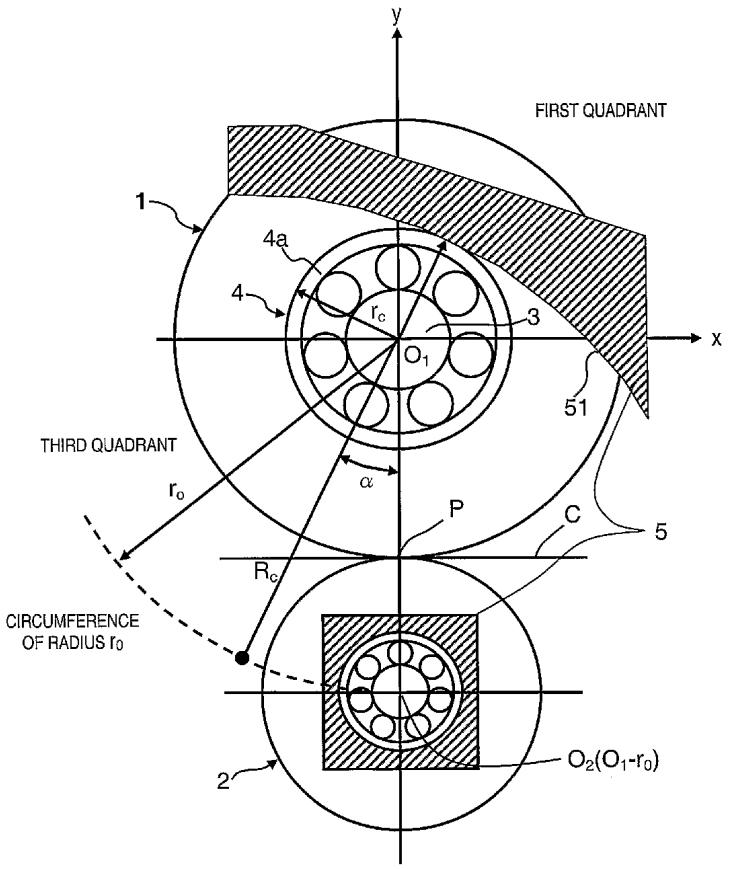


Fig. 1

(57) **Abstract:** A friction drive device has first and second rollers (1, 2), in which the ratio of the transmission power and the pressing power is nearly constant regardless of the magnitude of the transmission power. The rollers (1, 2) have center axes that are spaced apart by prescribed radial distance (r_0), and arranged relative to an x y coordinate system when the rollers (1, 2) are not under load such that the x y coordinate system has an origin corresponding to the center axis of the first roller (1), and the y-axis passes through the center axis of the second roller (2). The cam surface (51) is located in a first quadrant of the x y coordinate system, and has a concave arc with a single radius, such that the concave arc has a cam surface center located in a third quadrant of the x y coordinate system near or on an imaginary arc defined by the prescribed radial distance (r_0).

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

Int.Cl. F16H13/10

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

Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2006
Registered utility model specifications of Japan 1996-2006
Published registered utility model applications of Japan 1994-2006

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	JP 4-370447 A(KABUSIKIKAISYA HITAHI SEISAKUSYO) 1992.12.22 (Family : none)	1-6
A	JP 8-277896 A(MITUBISI JYUKOUGYOU KABUSIKIKAISYA) 1996.10.22(Family : none)	1-6

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