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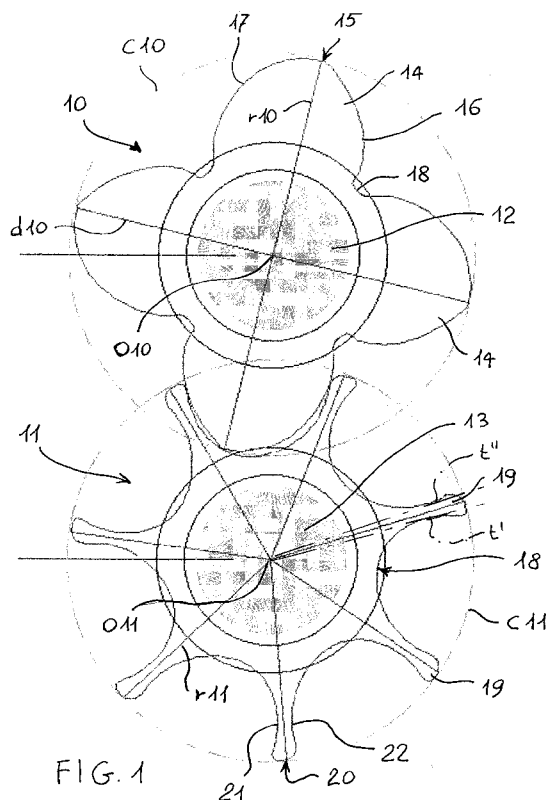
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[Continued on next page]

(54) Title: ROTORS FOR A ROTARY SCREW MACHINE



(57) Abstract: A rotary screw machine, such as a screw compressor, a vacuum pump or a motor, comprises mating rotors having asymmetrical profiles and the same outer diameter. Preferably, the end of the male rotor tooth has, from the point of maximum radius, on both flanks, two portions of arcs of a circle appreciably different in size as regards radius, but tangent, which describe a part of the left-hand flank and a part of the right-hand flank respectively. The female rotor has the respective matings in the corresponding area of the bottom of the tooth. Preferably the male rotor has three or four threads, while the female rotor preferably has six or seven threads, and even more preferably the male rotor has four threads and the female rotor has seven threads. From the centre of the female rotor lines can be drawn tangent to the two flanks of the same tooth.



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

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)
F04C F01C

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 388 376 A (LINDE AG) 26 March 1975 (1975-03-26) the whole document page 3, line 41 - line 94; figure 1 -----	1-14
X	US 4 576 558 A (TANAKA MASANORI [JP] ET AL) 18 March 1986 (1986-03-18) the whole document column 2, line 42 - column 3, line 2; figure 1b -----	1-14
X	US 4 671 750 A (MIYOSHI KIYOTADA [JP] ET AL) 9 June 1987 (1987-06-09) the whole document column 4, line 40 - column 5, line 2; figure 1 ----- -/--	1-14



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International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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