

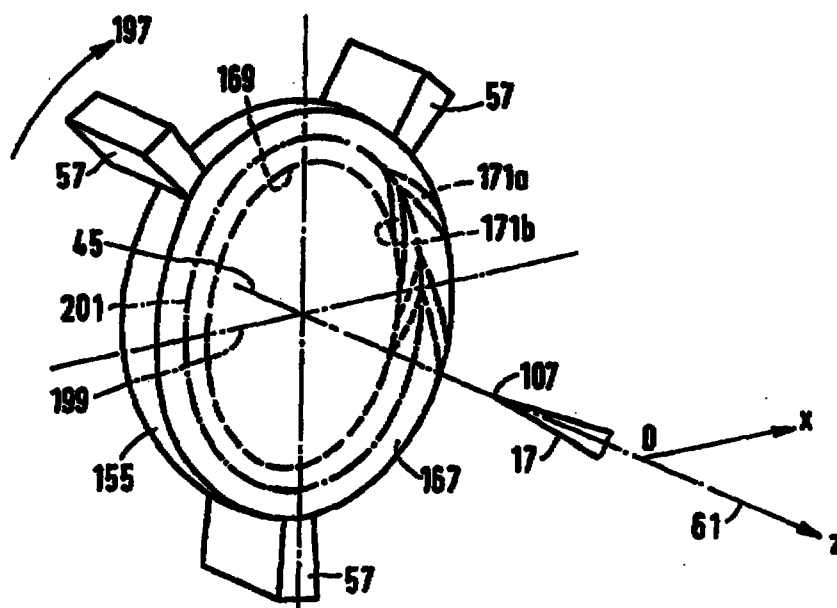
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(54) Title: METHOD OF MANUFACTURING A DYNAMIC GROOVE BEARING BY MEANS OF A METAL-REMOVING TOOL, AND DATA STORAGE UNIT PROVIDED WITH SUCH A DYNAMIC GROOVE BEARING**(57) Abstract**

A method of manufacturing a dynamic groove bearing (143) with a first bearing part (155) and a second bearing part (147) which are rotatable relative to one another. According to the method, the bearing parts (155, 147) are provided with cooperating bearing surfaces (165, 167; 185, 187), and the bearing surface (165, 167) of the first bearing part (155) is provided with a pattern of grooves (173, 169) by means of a metal-removing tool (17). In the method according to the invention, the first bearing part (155) is fastened to a rotatable support (57) of a machine tool (1), which support (57) is rotated in a constant direction. The tool (17) is periodically displaced relative to the first bearing part (155) parallel to a direction transverse to the bearing surface (165, 167) of the first bearing part (155) by means of a positioning device (15) with a frequency which is determined by a product of a rotation frequency of the support (57) and a number of grooves (171) to be provided on the bearing surface (165, 167) of the first bearing part (155).



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