

Title (en)  
Rolling bearing with a pin cage with actuating elements at the pins for modifying the skew of the rolling elements by temperature dependent change of shape of the actuating elements, e.g. by means of a shape memory alloy

Title (de)  
Wälzlager mit einem Bolzenkäfig mit Stellelementen an den Bolzen zur Änderung der Schrägung der Wälzkörper mittels temperaturabhängiger Formänderung der Stellelementen, z.B. mittels einer Formgedächtnislegierung

Title (fr)  
Palier à roulement avec cage à tourillons avec organes d'actionnement aux tourillons pour modifier l'inclinaison des éléments roulants par changement de forme sous l'influence de la température, par exemple par un alliage à mémoire de forme

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Abstract (en)  
[origin: WO2006116976A2] The invention relates to a roller bearing (1), with an inner running ring, an outer running ring, several roller bodies (6) arranged between the running rings and guided in a bearing cage (3), whereby the bearing cage (3) has axially aligned cage pins (5) evenly distributed around the circumference, each fixed at one end to a cage ring (4) on each of which a roller body (6) is arranged to rotate on a central bearing drilling (8). According to the invention, the operating properties of the roller bearing (1) may be improved, whereby the roller cage (3) is provided at each cage pin (5) with at least one passive positioning element (10), by means of which the offset of the corresponding roller body (6) may be altered by means of a temperature-dependent change of shape of the positioning element (10).

IPC 8 full level  
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