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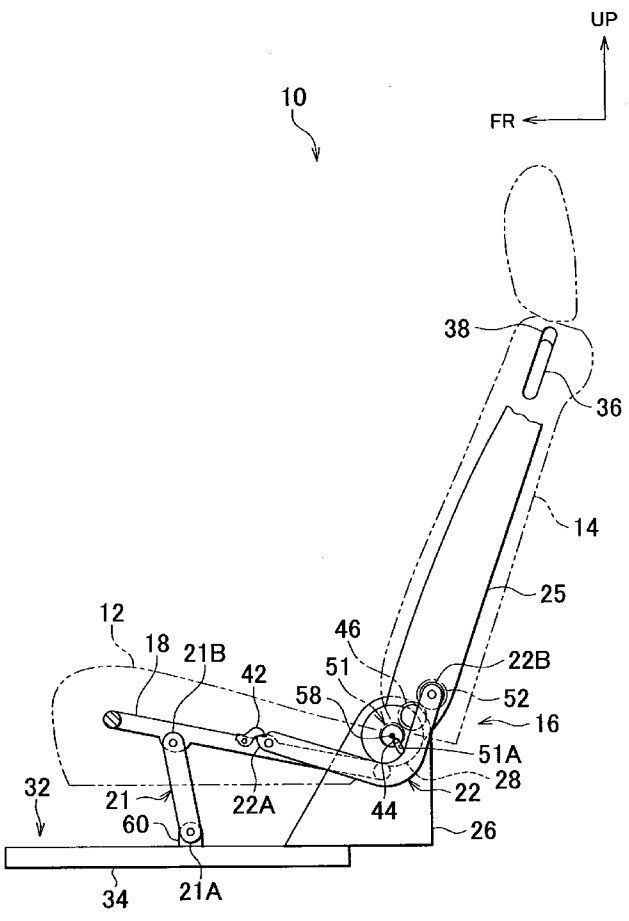
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[Continued on next page]

(54) Title: VEHICULAR SEAT DEVICE



(57) Abstract: A vehicular seat device assumes, as seat arrangements, a seating state and in which an occupant can sit, an entry/exit state in which the seat cushion (12) is in a standing state, and a retracted state in which a seatback (14) is superimposed on an upper side of the seat cushion (12). The vehicular seat device has a first linking member (21), a second linking member (22) and a drive mechanism (16) that are capable of changing the posture of the seat cushion (12) synchronously with the tilting of the seatback (14). Since the seat arrangement is changed synchronously with the tilting of the seatback (14), it is possible to reduce the burden of operation on an occupant in changing the seat arrangement, while allowing various seat arrangements.

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PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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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

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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	DE 103 55 486 A1 (ARACO KK [JP]) 8 July 2004 (2004-07-08) paragraph [0018] - paragraph [0032]; figures	1-3,19, 20
X	US 2005/269830 A1 (EPAUD DAVID [FR]) 8 December 2005 (2005-12-08) the whole document	1,19,20
A	DE 203 19 816 U1 (BROSE FAHRZEUGTEILE [DE]) 4 May 2005 (2005-05-04) the whole document	1-20

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 10355486 A1	08-07-2004	CN 1513696 A	21-07-2004
		JP 2004175300 A	24-06-2004
		US 2004160104 A1	19-08-2004
US 2005269830 A1	08-12-2005	DE 102005024087 A1	05-01-2006
		FR 2870795 A1	02-12-2005
		JP 2005335697 A	08-12-2005
DE 20319816 U1	04-05-2005	WO 2005058636 A1	30-06-2005
		EP 1699662 A1	13-09-2006
		JP 2007514590 T	07-06-2007
		US 2007252403 A1	01-11-2007