



(43) International Publication Date
3 August 2017 (03.08.2017)

- (51) **International Patent Classification:**
E05B 79/04 (2014.01) *E05B 85/02* (2014.01)
E05B 63/00 (2006.01)
- (21) **International Application Number:**
PCT/IB2017/000009
- (22) **International Filing Date:**
12 January 2017 (12.01.2017)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
201610065310.0 29 January 2016 (29.01.2016) CN
- (71) **Applicant:** KIEKERT AG [DE/DE]; Hoeseler Platz 2,
42579 Heiligenhaus (DE).
- (72) **Inventor:** LIU, Yuhui; Jiangsu Zhenjiang dingmao bridge,
Wodehuayuan 33-502 (CN).
- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN,

KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

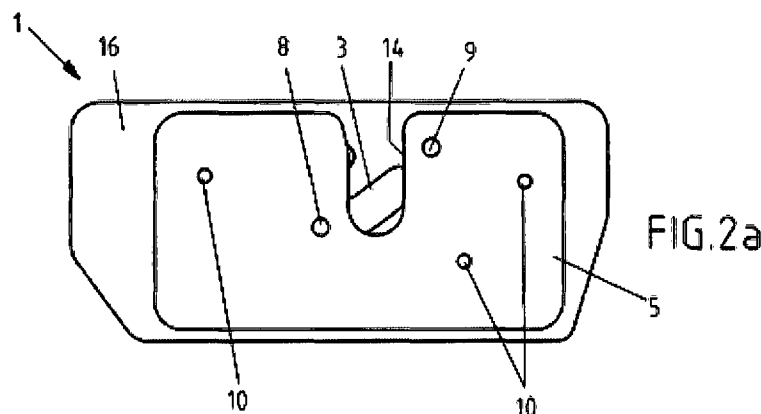
- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- 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))

- (88) **Date of publication of the international search report:**
28 September 2017

(54) **Title:** MOTOR VEHICLE LATCH



(57) **Abstract:** The invention relates to a motor vehicle latch (1, 2) with a catch (3) and a pawl (4) for a latching of the catch (3) which is pivotably mounted on a latch plate (5) or a latch case, whereby only the catch (3) and the pawl (4) are pivotably mounted as rigid-shaped, power-transmitted latch components of the motor vehicle latch (1, 2) in the same first rotational level (6) on the latch plate (5) or on the latch case, whereby in a system with at least two such motor vehicle latches each catch (3) and each pawl (4) are mounted at the same position on the latch plate (5) or the latch case and the at least two motor vehicle latches (1, 2) demonstrate differently arranged screwing points (10, 11) in the latch plate (5) or the latch case for screwing of one of each motor vehicle latch (1, 2) to a motor vehicle. This facilitates especially great flexibility with regard to the varying arrangements of the screwing points (10, 11).



INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2017/000009

A. CLASSIFICATION OF SUBJECT MATTER
INV. E05B79/04 E05B63/00 E05B85/02
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)
E05B

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 practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 285 481 A (MITSUI MINING & SMELTING CO [JP]) 12 July 1995 (1995-07-12) the whole document	1,2
A	US 2006/006676 A1 (PLETT MATTHEW [US] ET AL) 12 January 2006 (2006-01-12) the whole document	1,2
A	WO 2013/110645 A1 (VALEO SECURITE HABITACLE [FR]) 1 August 2013 (2013-08-01) the whole document	1
A	GB 2 321 920 A (ROCKWELL LVS [GB]) 12 August 1998 (1998-08-12) the whole document	1
	----- -/-	



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

27 July 2017

Date of mailing of the international search report

09/08/2017

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Geerts, Arnold

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2017/000009

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2015/062577 A1 (KIEKERT AG [DE]) 7 May 2015 (2015-05-07) the whole document -----	1
X	DE 195 39 753 A1 (KIEKERT AG [DE]) 30 April 1997 (1997-04-30) the whole document -----	3-10
X	DE 195 40 571 A1 (VOLKSWAGEN AG [DE]) 15 May 1996 (1996-05-15) the whole document -----	3-8
X	WO 02/079598 A2 (TRI MARK [US]; GLEASON STEPHEN J [US]; LANE CHRISTOPHER M [US]; ALCANT) 10 October 2002 (2002-10-10) the whole document -----	3-7
X	US 2012/291358 A1 (KONCHAN JEFFREY L [US] ET AL) 22 November 2012 (2012-11-22) the whole document -----	3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2017/000009

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 2

A system with at least two motor vehicle latches whereby each motor vehicle latch demonstrates a catch and a pawl pivotably mounted on a latch plate or a latch case, whereby each motor vehicle latch demonstrates the same latch plate or the same latch case and each catch wherein the at least two motor vehicle latches demonstrate differently arranged screwing points in the latch plate or the latch case for the screwing of one of each of the motor vehicle latches to a motor vehicle.

2. claims: 3-10

A motor vehicle latch, including a catch and a pawl for a latching of the catch, wherein only the catch and the pawl and preferably no or a maximum of one further rigid-shaped, power-transmitted latch component of the motor vehicle latch is pivotably mounted on the same first rotational level on a latch plate or on a latch case and disclose an empty cavity to provide space for a screw connection to connect the latch plate or the latch case with the motor vehicle stretches directly inwards to connect the latch plate or the latch case with the vehicle.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2017/000009

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2285481	A	12-07-1995	GB 2285481 A 12-07-1995
		JP 3096552 B2 10-10-2000	
		JP H07208007 A 08-08-1995	
		US 5735558 A 07-04-1998	
US 2006006676	A1	12-01-2006	US 2006006676 A1 12-01-2006
		US 2007222230 A1 27-09-2007	
WO 2013110645	A1	01-08-2013	NONE
GB 2321920	A	12-08-1998	NONE
WO 2015062577	A1	07-05-2015	CN 105683467 A 15-06-2016
		DE 112014004974 A5 13-10-2016	
		EP 3063351 A1 07-09-2016	
		US 2016273248 A1 22-09-2016	
		WO 2015062577 A1 07-05-2015	
DE 19539753	A1	30-04-1997	DE 19539753 A1 30-04-1997
		JP H09170368 A 30-06-1997	
		US 5762384 A 09-06-1998	
DE 19540571	A1	15-05-1996	NONE
WO 02079598	A2	10-10-2002	AU 2002306939 A1 15-10-2002
		US 6695361 B1 24-02-2004	
		WO 02079598 A2 10-10-2002	
US 2012291358	A1	22-11-2012	BR 102012011387 A2 18-06-2013
		CN 102787763 A 21-11-2012	
		DE 102012207887 A1 22-11-2012	
		US 2012291358 A1 22-11-2012	