



(11) **EP 1 898 035 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
04.03.2009 Bulletin 2009/10

(51) Int Cl.:
E05F 15/10^(2006.01) E05F 15/12^(2006.01)

(43) Date of publication A2:
12.03.2008 Bulletin 2008/11

(21) Application number: **07116116.0**

(22) Date of filing: **11.09.2007**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE
SI SK TR**
Designated Extension States:
AL BA HR MK RS

(30) Priority: **11.09.2006 IL 17799506**

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(54) **Mechanism for opening and closing a vehicle door**

(57) The present invention relates to motor vehicles having at least one hinged door. The invention provides an electrically-operated mechanism for opening and closing a door or doors. The invention is particularly useful for operation of the two hinged doors normally found at the rear of a delivery van. The invention achieves the above objects by providing a opening/closing electric mechanism for a hinged vehicle door, comprising a base plate (14) attachable to a fixed portion of the vehicle (16), a geared reversible electric motor (18) supported by said base plate (14). And a controller (22) being provided to effect all electrical opera-

tions. A short arm (24) attached to the output shaft (26) of the geared motor (20), and a long arm (30) having a first and a second extremity (32,34), revolvably attached to the short arm (24) at the first extremity (32). There is further provided an adapter plate (36) attachable to an inner surface of said door (12); and a pivot member revolvably attaching said second extremity (34) of said long arm (30) to said adapter plate (35); and means for activating/deactivating said motor (18) by means of said controller (22).

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**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 63 of the European Patent Convention EP 07 11 6116 shall be considered, for the purposes of subsequent proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
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Y	* figures 3,11-13,19,20 *	3,4,7, 10,12	E05F15/12
A	* page 13, lines 7-25 * * page 23, lines 10-12 * * page 27, line 8 - line 19 * * page 32, line 20 - line 25 * * page 38, line 10 - line 24 *	8,11,13	
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A	* page 7, lines 16-20 * * page 9, lines 1-12 * * page 9, line 25 - page 10, line 6 * * page 20, lines 26-30 * * page 24, lines 1-3 * * page 27, lines 2-6 * * page 29, lines 23-32 * * figures 1,22,25 *	8,11,13	
Y	DE 36 15 200 A1 (WURSTHORN EGON [DE]) 12 November 1987 (1987-11-12) * column 5, lines 24-43 *	7	
			TECHNICAL FIELDS SEARCHED (IPC)
			E05F H02H G04G
INCOMPLETE SEARCH The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims. Claims searched completely : Claims searched incompletely : Claims not searched : Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
The Hague		28 January 2009	Klemke, Beate
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**INCOMPLETE SEARCH
SHEET C**

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Claim(s) not searched:
9

Reason for the limitation of the search:

Claim 9 does not contain any technical features. Indeed, claim 9 attempts to define the claimed subject matter exclusively by reference to the description and drawings. This renders the exact scope of the claim unclear. Consequently, a meaningful search over the claimed scope is impossible (Rule 63 EPC and Guidelines B-VIII, 3 iii).

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 07 11 6116

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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