

Title (en)
A window-winder.

Title (de)
Fensterheber.

Title (fr)
Lève-vitre.

Publication
EP 0491320 A1 19920624 (EN)

Application
EP 91121520 A 19911216

Priority
IT 6801790 A 19901218

Abstract (en)
A window-winder has a reversible drive unit (14), a pair of rails (12) and a pair of slides (66) for supporting and driving the window (10). The rails (12) have slitted tubular guides (50) in each of which a lateral appendage (71) of one of the slides (66) is engaged. Transmission members (16) extend each between the drive unit (14) and one of the rails (12). Each transmission member (16) comprises a fixed sheath (38) and a flexible, toothed pull-and-push cable (40). To allow the window-winder to be mounted equally well to e.g. a right-hand or a left-hand door of a motor vehicle, the drive unit (14) is adapted to be fixed to a sidewall located on its one side on the other. The lateral appendage (71) of each slide (66) and a corresponding end portion (38a) of each sheath (38), on one hand, and a lower portion of the rail (12), on the other hand, are rotatably mounted with respect to each other. <IMAGE> <IMAGE>

IPC 1-7
E05F 11/40; **E05F 11/48**; **E05F 15/16**; **F16C 1/14**

IPC 8 full level
E05F 11/38 (2006.01); **E05F 11/42** (2006.01); **E05F 15/16** (2006.01)

CPC (source: EP)
E05F 11/385 (2013.01); **E05F 11/426** (2013.01); **E05F 15/689** (2015.01); **E05F 2011/387** (2013.01); **E05Y 2201/612** (2013.01); **E05Y 2600/53** (2013.01); **E05Y 2900/55** (2013.01)

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