

Title (en)  
Manual control apparatus

Title (de)  
Manuelle Betätigungsvorrichtung

Title (fr)  
Dispositif de commande manuelle

Publication  
**EP 0621084 B1 19980422 (DE)**

Application  
**EP 94810181 A 19940323**

Priority  
CH 119593 A 19930420

Abstract (en)  
[origin: EP0621084A1] The movable actuating lever (3) is on the one hand connected to a transmission lever (7) and on the other hand guided by means of a pin (5) in a guide (6) of the device housing (1). The transmission lever (7) serves at the same time for transmitting the actuating movement via further levers (11, 13) to the device part to be actuated. As a result of the position and shape of the guide groove (6) and of the lever (7), the course of movement of the actuating lever (3) with regard to the fixed handle part (2) can be adapted in an optimum manner to technical and ergonomic requirements in order to guarantee an efficient force transmission affected with minimal friction losses. Moreover, there are no inconvenient levers in the handle region, as a result of which injuries are avoided. <IMAGE>

IPC 1-7  
**B05C 17/01**; **B25B 7/12**

IPC 8 full level  
**B67D 7/42** (2010.01); **B25B 7/12** (2006.01)

CPC (source: EP US)  
**B05C 17/0126** (2013.01 - EP US); **B25B 7/12** (2013.01 - EP US); **Y10T 74/1584** (2015.01 - EP US); **Y10T 74/18856** (2015.01 - EP US); **Y10T 74/20612** (2015.01 - EP US)

Cited by  
EP2839872A1; DE19533223C2; WO2016119972A1

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**EP 0621084 A1 19941026**; **EP 0621084 B1 19980422**; DE 59405748 D1 19980528; JP 3473984 B2 20031208; JP H06312798 A 19941108; US 5499548 A 19960319

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**EP 94810181 A 19940323**; DE 59405748 T 19940323; JP 8049794 A 19940419; US 21697794 A 19940324