

Title (en)
Lock gear for door wing.

Title (de)
Schlossgetriebe für den Flügel von Türen.

Title (fr)
Engrenage de serrure pour battant de porte.

Publication
EP 0092630 A1 19831102 (DE)

Application
EP 82440013 A 19820427

Priority
EP 82440013 A 19820427

Abstract (en)
1. A lock mechanism for the leaf of a door, with at least one connecting rod (2) which carries at least one bolt element (2a) and which is arranged to be displaceable parallel to the face-plate (1) of the lock mechanism and which is urged into a closed position by spring force, with a drive member acting on the connecting rod (2) so as to displace the connecting rod against the spring force into an open position, with arresting means (5) cooperating with the connecting rod (2), which automatically engage in the open position of the connecting rod and retain the latter in the open position and which, when the door leaf is closed, are caused to be disengaged by the door-locating frame, and with a bolt (3) which can be moved transversely to the connecting rod (2) by means of a key, characterised in that the bolt (3) constitutes the drive member for displacing the connecting rod (2) and is coupled to the connecting rod (2) by a drive transmission (15, 18) which converts the displacing force acting in the opening direction of the bolt into a displacing force acting in the opening direction of the connecting rod, and in that in the drive transmission there is provided a coupling element (14) which transmits force only in the direction of the opening movement of the bolt (3), which is disengaged upon reaching the open position of the bolt (3) and which does not transmit force in the direction of the closing movement of the bolt.

Abstract (de)
Einem Treibstange (2), die Riegelemente trägt, wird durch Federkraft (20) in ihre Schließstellung gedrückt und ist entgegen dieser Federkraft in ihre Öffnungsstellung verschiebbar und in dieser arretierbar. Die Arretierung in der Öffnungsstellung der Treibstange (2) wird selbsttätig durch eine Auslöseinrichtung (22, 25) beim Schließen des Flügels zum Ausrasten gebracht. Der Riegel (10, 11) ist mit einer beweglich gelagerten Rampe (15) versehen, die über einen Nockenfolger (18) beim Entriegeln des Riegels (10, 11) durch den Schlüssel gleichzeitig die Treibstange (2) gegen deren Federbelastung (20) in die arretierte Öffnungsstellung bewegt. Rampe (15) und Nockenfolger (18) behindern nicht die Schließbewegung des Riegels (10, 11) und das selbsttätige Auslösen der Arretierung der Treibstange (2), bzw. Zurückkehren der Treibstange (2) in die Schließstellung.

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IPC 8 full level
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CPC (source: EP)
E05B 63/16 (2013.01); **E05B 63/20** (2013.01); **E05C 9/023** (2013.01)

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Cited by
DE19609483C1; DE19609486C1; EP0381820A3; EP2287426A1; EP0141891A1; EP0385213A3; US5373716A; DE4110556C5; CN112242659A; EP3112567A1; AT15141U1; EP0795663A1; DE19609484A1; DE19609484C2; EP2963213A1; AT515806A4; AT515806B1; RU2683655C2; WO2016113043A1

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