

Title (en)  
COIN-OPERATED LOCKING DEVICE

Publication  
**EP 0136715 B1 19881221 (DE)**

Application  
**EP 84111856 A 19841004**

Priority  
• FR 8315847 A 19831005  
• FR 8400352 A 19840111

Abstract (en)  
[origin: EP0136715A2] 1. Coupling device provided with a housing (1) and actuated by a deposit coin and intended for objects, particularly shopping trolleys, adapted to be connected to one another in a row via this device, - with, constructed as an elongated sliding rod and adapted for displacement in the housing (1) in its longitudinal direction, a coupling element (31) initially tensioned by a slide rod spring (32) in the direction of its uncoupled position in which it is passive, i.e. no further object can be coupled to it, and from which, when the object is coupled to the preceding object by the coupling element (31') thereof, it is displaced into its active position in which the coupling on of a further object is possible ; - with a locking device (35, 36, 37, 40) which, when the object is coupled to the preceding object, its projecting coupling element end (34') which comprises at least one notch is fixed by movable transversely disposed latches (36) which engage the said notch(es) - and comprising a releasing device (3) which after a coin has been inserted into a coin receiving chamber in the housing (1), permits uncoupling of the last object in the row and releases the coin again when the object is again coupled to a row of objects, characterised in that - the coupling element or sliding rod end which is to be fixed by the locking device (35, 36, 37, 40) is constructed as a flat key shank (34') provided with a plurality of notches and raised portions, and in that - the locking device (35, 36, 37, 40) comprises, adapted for axial displacement in a cylindrical recess (40) in the housing (1) of the uncoupling device, a sliding cylinder (35) which is connected to that end of the associated coupling element or slide rod (31) which is remote from that which is constructed as a flat key shank, and is provided with a number of latches (36) corresponding to the profiling of the flat key shanks (34'), and in that - when the object is uncoupled, these latches (36) - retaining the associated coupling element (31) in its uncoupled passive position - engage recesses (37) provided in the shell of the cylindrical recess (40), and in that - when the object is coupled onto the preceding object, the flat key shank (34') of the coupling element (31') thereof enters the displaceable sliding cylinder (35) of the object which is to be coupled on in such a way that it releases the latches (36) from the recesses (37) and displaces the sliding cylinder (35) into a portion of the cylindrical recess (40) which is free from recesses where - in the now active position of the associated coupling element (31) - it is fixed by the latches (36).

IPC 1-7  
**G07F 7/06**

IPC 8 full level  
**G07F 7/06** (2006.01)

CPC (source: EP)  
**G07F 7/0654** (2013.01)

Cited by  
FR2685729A1; EP0468088A1; EP0231934A3; EP3418986A1; WO2005076234A1; WO9311512A1

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