

Title (en)
Device for locking the batteries of an electric tool

Title (de)
Vorrichtung zum Verriegeln der Batterien eines Elektrowerkzeugs

Title (fr)
Dispositif destiné à verrouiller des batteries d'un outil électrique

Publication
EP 2875910 B1 20160608 (DE)

Application
EP 14472004 A 20140919

Priority
BG 264413 A 20131015

Abstract (en)
[origin: CN204382233U] A locking mechanism for an electric tool battery is used in a portable electric tool. The locking mechanism for the electric tool battery comprises a forming pawl (1) positioned in a handle of the tool and limited in a bed (2). In the handle, longitudinal forming grooves (5) are matched with longitudinal forming teeth (6) formed on a battery shell. The forming pawl is attached and connected to the handle through a fixing bolt (8). A part of cut (9) is unilaterally formed in the pawl in which a torsional spring is positioned. At the front portion of the pawl, handle teeth (11) are fixing surfaces (12) parallel to a longitudinal shaft (13) of the fixing bolt. At the upper portion of the shell, fixing teeth (14) are formed among the longitudinal forming teeth (6). At the closing position of the forming pawl, and the fixing surfaces (12) of the fixing teeth (14) and the contact surfaces (15) of the fixing teeth (14) are mutually consistent through closing with respect to an acute angle of the plane formed by the longitudinal forming grooves of the electric tool and the longitudinal forming teeth on the shell.

IPC 8 full level
B25F 5/02 (2006.01)

CPC (source: EP)
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Cited by
US2013269965A1; DE102017129619A1; EP3524393A1; EP4052856A1; US10847766B2; US11539163B2; US10158105B2; US10892451B2; WO2022184496A1

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