

Title (en)
Valve core mounting and dismounting tool

Title (de)
Werkzeug zum Ein- und Ausbau von Ventilkernen

Title (fr)
Outil pour installer ou démonter des noyaux de valve

Publication
EP 1033205 A3 20030416 (EN)

Application
EP 00301317 A 20000221

Priority
JP 8953799 A 19990222

Abstract (en)
[origin: EP1033205A2] A tire air valve (core) mounting and dismounting tool (20) includes a tool head portion (21), a shank portion (22) and a grip portion (23). The tool head portion (21) has a slot (32) for seizing and holding a valve core head portion (16), an axial bore (33) for accepting a valve core shaft portion (14) and its enlarged end (14a). The tool head portion (21) also has annular groove (34) formed along a cylindrical peripheral surface thereof. Balls (36) are retained in second bores (35) which are open to the annular groove (34) and also communicate with the axial bore (33) through openings (37) of a reduced diameter to allow the balls (36) to partially protrude into the axial bore (33). A coil spring (38) is anchored and fastened in the annular groove (34) to act to normally bias the ball (36) radially inwards and leave the balls (36) protruding into the axial bore (33). When the balls (36) are hit and pushed down by the valve core shaft's enlarged end (14a), the elasticity of the coil spring (38) allows the balls (36) to move radially outwards, permitting the valve core shaft end (14a) to move deeper beyond the balls (36) and then permitting the balls (36) to restore their biased state, thereby holding the valve core shaft end (14a) against moving back. Thus, the valve core is caught by the tool. <IMAGE>

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B60C 25/18

IPC 8 full level
B25B 13/48 (2006.01); **B25B 27/24** (2006.01); **B60C 25/18** (2006.01)

CPC (source: EP)
B25B 13/48 (2013.01); **B25B 27/24** (2013.01)

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