

Title (en)  
Reinforced shank plastic key.

Title (de)  
Verstärkter Plastikschlüsselschaft.

Title (fr)  
Tige de la clé en plastique renforcée.

Publication  
**EP 0553900 A2 19930804 (EN)**

Application  
**EP 93106063 A 19880829**

Priority  
• EP 88114070 A 19880829  
• US 9149287 A 19870903  
• US 15588488 A 19880216  
• US 21676388 A 19880708

Abstract (en)  
A flat plastic operational key (27) replaces a corresponding metal key, but is geometrically dissimilar to the metal key. The plastic key (27) includes a shortened key alignment groove (31) relative to the length of the key alignment groove utilized in the corresponding metal key. The shortened key alignment groove (31) increases the volume and strength of the plastic key shank (29) by eliminating a part of the decreased key thickness created by the penetration of the alignment groove (31) into the shank (29) of the plastic key (27).

IPC 1-7  
**E05B 19/02**; **E05B 19/26**

IPC 8 full level  
**E05B 19/00** (2006.01); **A45C 11/32** (2006.01); **E05B 19/04** (2006.01); **E05B 19/26** (2006.01); **E05B 15/16** (2006.01)

CPC (source: EP KR)  
**A45C 11/326** (2013.01 - EP); **E05B 19/00** (2013.01 - KR); **E05B 19/26** (2013.01 - EP); **E05B 15/1635** (2013.01 - EP)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0305953 A2 19890308**; **EP 0305953 A3 19900613**; **EP 0305953 B1 19940427**; AU 2154788 A 19890309; AU 603250 B2 19901108; BR 8804530 A 19890404; CA 1334797 C 19950321; DE 3856046 D1 19971120; DE 3856046 T2 19980212; DE 3889266 D1 19940601; DE 3889266 T2 19940922; EP 0553900 A2 19930804; EP 0553900 A3 19930901; EP 0553900 B1 19971015; JP H01146086 A 19890608; KR 890005363 A 19890513; MX 172828 B 19940117; NZ 225897 A 19910226; PL 274407 A1 19890502; PT 88419 A 19890731; YU 168788 A 19901031

DOCDB simple family (application)  
**EP 88114070 A 19880829**; AU 2154788 A 19880825; BR 8804530 A 19880902; CA 576413 A 19880902; DE 3856046 T 19880829; DE 3889266 T 19880829; EP 93106063 A 19880829; JP 21965588 A 19880903; KR 880011390 A 19880903; MX 1277488 A 19880823; NZ 22589788 A 19880822; PL 27440788 A 19880626; PT 8841988 A 19880902; YU 168788 A 19880905