

Title (en)  
ELECTRONIC CAM ASSEMBLY

Title (de)  
ELEKTRONISCHE NOCKENWELLENANORDNUNG

Title (fr)  
ENSEMBLE A CAME ELECTRONIQUE

Publication  
**EP 1261789 A4 20060222 (EN)**

Application  
**EP 00917597 A 20000204**

Priority  
US 0000518 W 20000204

Abstract (en)  
[origin: WO0157346A1] A cam assembly (140) may be constructed with cylinder plug (116) perforated by a centrally positioned keyway (118), and having an exposed circumferential surface surrounding the keyway (118) rotatably fitted within a centrally positioned keyhole of a housing (126), and rotated within the centrally positioned keyhole in response to rotational force applied by a key (500) conformingly corresponding to the cylinder plug (116) through an arc. A cam (102) mounted either coaxially with the cylinder plug (116), or radially offset from the cylinder plug (116), is positioned within the housing (126) to rotate with the cylinder plug (116) as the key (500) conformingly corresponding to the lock (116) manually applies a rotational force to the cylinder plug (116) and rotates through the arc, while a member (110) attached to the cam (102) and eccentrically positioned relative to the keyway (118), drives the bolt (112) between extended and retracted positions as the cylinder plug (116) rotates through the arc. An electronic circuit (130) containing a memory (534, 536) and a microprocessor (530), is mounted upon and supported by the cam (102) to rotate with the cam (102) through the arc. The electronic circuit (130) operationally responds to digital data carried by the key (500) that is in electronic conformance to data stored within the memory (514, 516), by electrically energizing a release mechanism that is spaced-apart from the axis of rotation of the cylinder plug (116), to move between a deployed position preventing rotation of the cam (102) relative to the housing (126), and a released position accommodating the rotation of the cam (102) relative to the housing (126).

IPC 8 full level  
**E05B 49/00** (2006.01); **E05B 47/06** (2006.01); **E05B 65/00** (2006.01); **G07C 9/00** (2006.01)

CPC (source: EP)  
**E05B 47/0002** (2013.01); **E05B 47/0603** (2013.01); **E05B 65/0075** (2013.01); **G07C 9/0069** (2013.01); **G07C 9/00896** (2013.01); **E05B 17/0062** (2013.01); **E05B 17/2084** (2013.01); **E05B 47/0004** (2013.01); **E05B 47/0005** (2013.01); **G07C 2009/00761** (2013.01)

Citation (search report)  
• [X] EP 0848122 A1 19980617 - QUANTE AG [DE], et al  
• [A] US 3236076 A 19660222 - WELLEKENS JOHN F  
• See references of WO 0157346A1

Cited by  
CN113246871A

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0157346 A1 20010809**; EP 1261789 A1 20021204; EP 1261789 A4 20060222

DOCDB simple family (application)  
**US 0000518 W 20000204**; EP 00917597 A 20000204