

Title (en)  
HERMETICALLY SEALED, MODULAR, TACTILE KEYBOARD

Publication  
**EP 0074315 B1 19860604 (FR)**

Application  
**EP 82401609 A 19820831**

Priority  
FR 8116623 A 19810901

Abstract (en)  
[origin: US4471189A] The keyboard comprises a printed circuit (4) serving both as an electrical connection means and as a supporting means for a modular frame (3) including a plurality of square-shaped housings (30) defined by walls (31) and arranged in rows and columns, either contact modules (7) or signal-lamp modules fitted on said printed circuit in said housings, a resilient, sealed diaphragm (1) secured to said frame, keys cooperating with said contact modules through the portions of said keys which face outwardly from said diaphragm and are actuated by an operator finger, and means (105, FIG. 5; 9, FIG. 2) by which a tactile feel can be provided through a snapping, movement.

IPC 1-7  
**B41J 5/12**; **H01H 13/70**

IPC 8 full level  
**B41J 5/12** (2006.01); **H01H 13/02** (2006.01); **H01H 13/70** (2006.01); **H01H 13/702** (2006.01)

CPC (source: EP US)  
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Cited by  
EP0657908A3; FR2562320A1; EP0729164A3; FR2562286A1; EP0585536A1; FR2587833A1; US4671688A; CN105637606A; EP3033759A4; GB2269054A; GB2269054B; FR2566574A1; US4710597A; AU582171B2; US6204459B1; WO8600462A1; WO8603053A1; WO9850930A1; WO2015021560A1; US9823754B2

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