

Title (en)

ELECTRONIC KEYBOARD WITH LUMINOUS KEYS

Title (de)

ELEKTRONISCHE TASTATUR MIT LEUCHTTASTEN

Title (fr)

CLAVIER ELECTRONIQUE A TOUCHES LUMINEUSES

Publication

EP 1138053 B1 20020828 (FR)

Application

EP 99958259 A 19991207

Priority

- FR 9903037 W 19991207
- FR 9815479 A 19981208

Abstract (en)

[origin: FR2786918A1] The invention concerns electronic keyboards, in particular those used in dark surroundings and which therefore require that the keys are illuminated. The keyboard comprises a rigid printed circuit (10) whereon are soldered switches (20) capable of being indirectly actuated by the user's finger, each switch being topped with a key (30) at least partly transparent and illuminating means being provided for lighting up the key from the rear. The invention is characterised in that a pliable printed circuit (50), bearing conductors powering the electroluminescent diodes, is interposed between the keys (30) and the rigid printed circuit (10) bearing the switches; the pliable printed circuit comprises a rigid part (54) between a key and the corresponding switch, and the electroluminescent diode (60) which is to illuminate each key from the rear is soldered on the pliable printed circuit rigid part, between the key and the switch. The key preferably comprises a cavity wherein is housed the diode. The key presses on the switch via the rigid part (54) without pressing on the diode.

IPC 1-7

H01H 13/70

IPC 8 full level

H01H 13/70 (2006.01)

CPC (source: EP US)

H01H 13/70 (2013.01 - EP US); **H01H 2219/014** (2013.01 - EP US); **H01H 2219/04** (2013.01 - EP US); **H01H 2223/054** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

FR 2786918 A1 20000609; **FR 2786918 B1 20010216**; CA 2354160 A1 20000615; DE 69902690 D1 20021002; DE 69902690 T2 20030731; EP 1138053 A1 20011004; EP 1138053 B1 20020828; US 6720892 B1 20040413; WO 0034968 A1 20000615

DOCDB simple family (application)

FR 9815479 A 19981208; CA 2354160 A 19991207; DE 69902690 T 19991207; EP 99958259 A 19991207; FR 9903037 W 19991207; US 85618401 A 20010606