

Title (en)  
Keyboard.

Title (de)  
Tastatur.

Title (fr)  
Clavier.

Publication  
**EP 0099427 A1 19840201 (EN)**

Application  
**EP 82303631 A 19820709**

Priority  
• EP 82303631 A 19820709  
• US 19017780 A 19800924  
• US 24405481 A 19810316

Abstract (en)  
A moldable, impulse operation synthetic resin keyboard, and a method of fabricating the same, are provided wherein the keyboard achieves essentially standard, tactile feel and feedback, mechanical N-key rollover protection, and precise, reliable output. The preferred embodiment of the keyboard includes a synthetic resin base plate having a plurality of elongated, cantilever mounted flippers, along with a plurality of elongated, laterally spaced, inwardly and oppositely extending, pivotal, key-supporting arms. Upon depression of a key, the associated flipper is deformed until a release point is reached, whereupon the flipper is disengaged, allowing the flipper to quickly return to its rest position. A keyboard output is developed as the flipper, during overtravel thereof past its rest position, strikes a signal-generating assembly. An alternative embodiment of the keyboard includes a plurality of depressible keys mounted on respective upright synthetic resin flaps designed to collapse upon key depression and engage and move an underlying, resilient, U-shaped shifting member; the member in turn engages and shifts another U-shaped resilient element which supports one or more upstanding encoding posts. When the U-shaped element reaches a cocked position it is disengaged from the shifting member and allowed to snap back toward the original rest position thereof independently of subsequent return movement of the key and shifting member. The snap back motion is sensed and a corresponding key output signal developed.

IPC 1-7  
**H01H 13/70**

IPC 8 full level  
**H01H 11/00** (2006.01); **H01H 13/70** (2006.01)

CPC (source: EP)  
**H01H 11/00** (2013.01); **H01H 13/70** (2013.01); **H01H 2215/028** (2013.01); **H01H 2215/034** (2013.01); **H01H 2217/012** (2013.01); **H01H 2225/016** (2013.01); **H01H 2227/036** (2013.01); **H01H 2233/004** (2013.01); **H01H 2233/006** (2013.01); **H01H 2239/026** (2013.01)

Citation (search report)  
• US 3472974 A 19691014 - MCGOUGH GERALD B  
• US 3909564 A 19750930 - SCHEINGOLD WILLIAM SAMUEL, et al  
• GB 1171082 A 19691119 - WILLCOX FREDERICK PRESTON [US]  
• US 3120584 A 19640204 - GRUNFELDER PHILIP J, et al  
• US 3811024 A 19740514 - SEVIGNY H  
• US 4359613 A 19821116 - ROONEY CRAIG E  
• US 4359612 A 19821116 - ROONEY CRAIG E  
• [A] IBM TECHNICAL DISCLOSURE BULLETIN, vol. 23, no. 10, March 1981, pages 4548-4549, New York, USA

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0099427 A1 19840201**

DOCDB simple family (application)  
**EP 82303631 A 19820709**