

Title (en)
KEYBOARD VENTING

Publication
EP 0322515 A3 19900912 (EN)

Application
EP 88115128 A 19880915

Priority
US 13941587 A 19871230

Abstract (en)
[origin: EP0322515A2] A keyboard (10) (e.g. for a calculator) is described including a base member having a plurality of channels (14) or a chamber, circuitry defining a plurality of switches (17) in a pattern, and optionally a plurality of domes (24) in registry with the switch sites. When a dome is depressed or deflected downwardly, the air under the dome passes into a channel or a chamber where it is distributed away from the switch site. A vent aperture (14B) communicating between the channel or chamber and the atmosphere may also be included. Membrane switches can also be used in such a keyboard.

IPC 1-7
H01H 13/70

IPC 8 full level
H01H 13/52 (2006.01); **H01H 13/702** (2006.01); **H01H 13/712** (2006.01)

CPC (source: EP)
H01H 13/702 (2013.01); **H01H 2203/02** (2013.01); **H01H 2213/002** (2013.01); **H01H 2213/01** (2013.01); **H01H 2213/014** (2013.01); **H01H 2215/006** (2013.01); **H01H 2227/006** (2013.01); **H01H 2227/018** (2013.01); **H01H 2227/022** (2013.01)

Citation (search report)
• [X] US 3995126 A 19761130 - LARSON WILLIS AUGUST
• [Y] US 4423294 A 19831227 - WALSER RICHARD J [US], et al
• [A] GB 2191340 A 19871209 - AMALGAMATED WIRELESS AUSTRALAS
• [A] EP 0051749 A1 19820519 - PREH ELEKTRO FEINMECHANIK [DE]
• [A] US 4463234 A 19840731 - BENNEWITZ WILLIAM W [US]
• [A] GB 2183401 A 19870603 - MORSE NENA

Cited by
EP2175465A1; US6727445B2; EP1528584A3; DE10158580B4; US8066191B1; DE10158629B4; EP2114727A4; US6417467B1; EP0917167A1; US6100484A; US7214874B2; DE102004058482A9; DE102004058482A9; DE102004058482B4; US11974903B2; US7362231B2; US7056042B2; DE102009051829A1; US8002564B2; DE102009051829B4; WO2004008096A1; WO2018064077A3; US9928456B1; US10176419B1; US8287336B2; US8961280B2; US7391861B2; US8094806B2; US7145092B2; US11369730B2; US8089017B2; US8507820B2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0322515 A2 19890705; EP 0322515 A3 19900912; JP H01209616 A 19890823

DOCDB simple family (application)
EP 88115128 A 19880915; JP 32032888 A 19881219