

Title (en)
Keypad for a handheld electronic device with a light guide

Title (de)
Tastatur für tragbares elektronisches Gerät mit einem Lichtleiter

Title (fr)
Clavier pour dispositif électronique portable avec guide de lumière

Publication
EP 1890310 B1 20091028 (EN)

Application
EP 06117416 A 20060718

Priority
EP 06117416 A 20060718

Abstract (en)
[origin: EP2003669A1] An improved piano-style keypad comprises a light guide and a key sheet, with the light guide retaining the key sheet on a substrate, such as a printed circuit board of a handheld electronic device. The keypad is advantageously configured to enable key caps of the keypad to be adhered to key bodies of the keypad in a fashion that provides long-term reliability while still providing keys that can readily be actuated and that provide tactile feedback that is desirable to the user. A keypad (4) for a handheld electronic device (6) that comprises a light source (28), the keypad comprising: a key sheet (20) comprising a base (32) and a number of key bodies (36), at least some of the key bodies each being disposed on the base and being movable between an unactuated position and an actuated position, the key body in the actuated position being structured to complete a circuit of the handheld electronic device, at least a portion of the key sheet being translucent; and a light guide (16) comprising a frame (78) and a number of supports (80), characterized in that at least a portion of the frame is disposed adjacent at least a portion of the base, at least some of the supports engaging the base, at least a portion of the light guide being translucent and being structured to transmit light between the light source and the key sheet.

IPC 8 full level
H01H 13/83 (2006.01)

CPC (source: EP)
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Cited by
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