

Title (en)  
Microphone

Title (de)  
Mikrofon

Title (fr)  
Microphone

Publication  
**EP 1098547 A2 20010509 (EN)**

Application  
**EP 00309481 A 20001027**

Priority  
JP 816999 U 19991027

Abstract (en)  
There is provided a microphone which does not require a capsule and is made small, and whose production cost is reduced. There is also provided a microphone utilizing optical signals for surface mounting, in which the light emission element and the light-receiving element are hardly broken due to the heat at the time of soldering. Specifically, a membrane frame and a membrane support disposed on a substrate are bonded, the membrane support and a sidewall of the membrane frame are designated as a microphone sidewall, and an upper face of the membrane frame is designated as a microphone top plate. Diameter of the substrate is made larger than that of the membrane support, and a soldering terminal on the substrate is disposed between the membrane support and the substrate end face. <IMAGE>

IPC 1-7  
**H04R 1/08**

IPC 8 full level  
**H04R 23/00** (2006.01)

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**H04R 23/008** (2013.01)

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