

ABSTRACT

The present invention relates to a lighted switch used in input sections of various kinds of electronic devices, and a uniformly luminous EL sheet diaphragm and a lighted switch which is of a thin structure using the same are provided.

The uniformly luminous EL sheet diaphragm is formed by molding a diaphragm portion 2 in a diffusion-type EL sheet which comprises a transparent electrode layer 4 formed on a transparent film 3, a light emitting layer 5, a dielectric layer 6, a rear electrode layer 7 and an insulating layer 8 in such manner that a light emitting surface is in a convex side, and the switch is provided by an electrode contact layer 9 newly formed on the insulating layer 8 in a concave side of the EL sheet diaphragm and an opposed electrode contact layer 11 formed on an insulating film base 10 opposite thereto, so that the thin structure can be achieved.

Further, the transparent electrode layer 4 of the EL sheet diaphragm is formed by printing and drying a paste prepared by dispersing conductive powders that has a visible light transmittance in an insulating resin, and a high dielectric constant and flexible resin selected from vinylidene fluoride rubber and a blended resin of cyanated pullulan or cyanated cellulose and cyanated polyvinyl alcohol is employed as a binder resin for the light emitting layer 5 and dielectric layer 6, so

that light emission failures due to wire breakage in the diaphragm portion 2 can be reduced, and a high quality EL sheet diaphragm and a switch using the same can be provided.