

Title (en)

METHOD FOR PRODUCING A THREE-DIMENSIONAL CIRCUIT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER DREIDIMENSIONALEN SCHALTUNG

Title (fr)

PROCEDE DE PRODUCTION D'UN CIRCUIT TRIDIMENSIONNEL

Publication

**EP 1808058 A1 20070718 (DE)**

Application

**EP 06762536 A 20060711**

Priority

- EP 2006006788 W 20060711
- DE 102005033218 A 20050715

Abstract (en)

[origin: WO2007009639A1] The invention relates to a method for producing a three-dimensional circuit comprising at least two substrate layers which are flexible and which are arranged on top of each other and which comprise conductor paths and/or circuit elements which are made of electric functional materials. Said method consists of a combination of the following steps a. a continuous sheet of material is used for at least two substrate layers, b. the electric functional material is pressed onto the substrate layers, c. at least one folding or bending edge is provided in the sheet of material in order to define the at least two substrate layers from each other, whereby the folding process is carried out inline with the pressing step, d. the sheet of material is folded after the conductor paths and/or circuit elements are pressed about the folding or bending edges, such that the at least two layers of substrates are arranged on top of each other.

IPC 8 full level

**H05K 1/00** (2006.01)

CPC (source: EP KR US)

**H05K 1/00** (2013.01 - KR); **H05K 1/16** (2013.01 - EP US); **H05K 1/0393** (2013.01 - EP US); **H05K 1/095** (2013.01 - EP US); **H05K 3/4611** (2013.01 - EP US); **H05K 3/4614** (2013.01 - EP US); **H05K 3/4635** (2013.01 - EP US); **H05K 2201/055** (2013.01 - EP US); **H05K 2203/0221** (2013.01 - EP US)

Citation (search report)

See references of WO 2007009639A1

Citation (examination)

- US 2005146510 A1 20050707 - OSTERGARD TONI [FI]
- JP H03225991 A 19911004 - FUJIKURA LTD

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**DE 102005033218 A1 20070118**; CN 101223833 A 20080716; EP 1808058 A1 20070718; JP 2009501437 A 20090115; KR 20080025664 A 20080321; US 2008199597 A1 20080821; WO 2007009639 A1 20070125

DOCDB simple family (application)

**DE 102005033218 A 20050715**; CN 200680025686 A 20060711; EP 06762536 A 20060711; EP 2006006788 W 20060711; JP 2008520784 A 20060711; KR 20077025366 A 20071101; US 99492806 A 20060711