

Title (en)  
IC-CHIP WITH PROTECTIVE STRUCTURE

Title (de)  
IC-CHIP MIT SCHUTZSTRUKTUR

Title (fr)  
PUCE A CIRCUITS INTEGRES COMPORTANT UNE STRUCTURE PROTECTRICE

Publication  
**EP 1428254 A2 20040616 (DE)**

Application  
**EP 02754526 A 20020812**

Priority  
• DE 0202955 W 20020812  
• DE 10140045 A 20010816

Abstract (en)  
[origin: WO03017350A2] The protective structure is distributed over the semiconductor chip (1), such that it is impossible to cause a malfunction in the circuit through radiation without also causing damage to the protective structure by the radiation. Redundant conductors (3), or connections with radiation-dependent conductance or dielectric constant are provided, or the check lines of a memory are arranged between the bit lines.

IPC 1-7  
**H01L 21/56**

IPC 8 full level  
**G06K 19/073** (2006.01); **G11C 16/22** (2006.01); **H01L 23/552** (2006.01); **H01L 23/58** (2006.01); **H10B 69/00** (2023.01)

CPC (source: EP US)  
**G06K 19/073** (2013.01 - EP US); **G06K 19/07372** (2013.01 - EP US); **G11C 16/22** (2013.01 - EP US); **H01L 23/552** (2013.01 - EP US); **H01L 23/576** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

C-Set (source: EP US)  
**H01L 2924/0002 + H01L 2924/00**

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**WO 03017350 A2 20030227; WO 03017350 A3 20040205**; DE 10140045 A1 20030313; DE 10140045 B4 20060504; EP 1428254 A2 20040616; US 2005029653 A1 20050210; US 7170107 B2 20070130

DOCDB simple family (application)  
**DE 0202955 W 20020812**; DE 10140045 A 20010816; EP 02754526 A 20020812; US 78135904 A 20040217