

Title (en)
POWER SEMI-CONDUCTOR CHIP WITH A METAL MOULDED BODY FOR CONTACTING THICK WIRES OR STRIPS, AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
LEISTUNGSHALBLEITERCHIP MIT METALLISCHEN FORMKÖRPERN ZUM KONTAKTIEREN MIT DICKDRÄHTEN ODER BÄNDCHEN SOWIE VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
PUCE DE SEMI-CONDUCTEUR DE PUISSANCE DOTÉE DE CORPS MOULÉS MÉTALLIQUES POUR LA MISE EN CONTACT ÉLECTRIQUE AVEC DE GROS FILS OU DES BANDELETES, ET PROCÉDÉ DE PRODUCTION

Publication
EP 2766922 A1 20140820 (DE)

Application
EP 12769904 A 20120910

Priority
• DE 102011115887 A 20111015
• EP 2012003787 W 20120910

Abstract (en)
[origin: WO2013053420A1] The invention relates to a power semiconductor chip (10) having at least one upper-sided potential surface and contacting thick wires (50) or strips, comprising a connecting layer (1) on the potential surfaces, and at least one metal moulded body (24, 25) on the connecting layer(s), the lower flat side thereof facing the potential surface being provided with a coating to be applied to the connecting layer (1) according to a connection method, and the material composition thereof and the thickness of the related thick wires (50) or strips arranged on the upper side of the moulded body used according to the method for contacting are selected corresponding to the magnitude.

IPC 8 full level
H01L 21/60 (2006.01); **H01L 23/485** (2006.01)

CPC (source: CN EP US)
A41F 1/00 (2013.01 - EP); **A41F 15/02** (2013.01 - EP); **H01L 21/6835** (2013.01 - US); **H01L 23/4924** (2013.01 - US); **H01L 23/562** (2013.01 - US); **H01L 24/03** (2013.01 - EP); **H01L 24/05** (2013.01 - CN EP US); **H01L 24/06** (2013.01 - EP); **H01L 24/48** (2013.01 - CN EP US); **H01L 24/49** (2013.01 - CN EP US); **H01L 24/85** (2013.01 - US); **H01L 24/45** (2013.01 - EP US); **H01L 2221/68372** (2013.01 - US); **H01L 2224/03013** (2013.01 - CN EP US); **H01L 2224/0311** (2013.01 - CN EP US); **H01L 2224/03438** (2013.01 - EP); **H01L 2224/04042** (2013.01 - EP US); **H01L 2224/05139** (2013.01 - EP); **H01L 2224/05541** (2013.01 - EP); **H01L 2224/05551** (2013.01 - EP); **H01L 2224/05554** (2013.01 - EP); **H01L 2224/05573** (2013.01 - EP); **H01L 2224/05624** (2013.01 - EP); **H01L 2224/05639** (2013.01 - EP US); **H01L 2224/05644** (2013.01 - EP US); **H01L 2224/05647** (2013.01 - EP US); **H01L 2224/0603** (2013.01 - EP US); **H01L 2224/06051** (2013.01 - EP); **H01L 2224/061** (2013.01 - EP); **H01L 2224/0612** (2013.01 - EP); **H01L 2224/06181** (2013.01 - EP); **H01L 2224/12105** (2013.01 - EP); **H01L 2224/2612** (2013.01 - EP); **H01L 2224/2908** (2013.01 - CN EP US); **H01L 2224/32225** (2013.01 - CN EP US); **H01L 2224/45014** (2013.01 - CN EP US); **H01L 2224/45015** (2013.01 - CN EP US); **H01L 2224/45124** (2013.01 - EP US); **H01L 2224/45139** (2013.01 - EP US); **H01L 2224/45147** (2013.01 - CN EP US); **H01L 2224/4801** (2013.01 - EP); **H01L 2224/48227** (2013.01 - CN EP US); **H01L 2224/48472** (2013.01 - CN EP US); **H01L 2224/48475** (2013.01 - EP); **H01L 2224/48491** (2013.01 - CN EP US); **H01L 2224/48824** (2013.01 - EP); **H01L 2224/48839** (2013.01 - EP); **H01L 2224/48844** (2013.01 - EP); **H01L 2224/48847** (2013.01 - EP); **H01L 2224/49111** (2013.01 - CN EP US); **H01L 2224/49176** (2013.01 - EP); **H01L 2224/73265** (2013.01 - CN EP US); **H01L 2224/786** (2013.01 - CN EP US); **H01L 2224/83801** (2013.01 - CN EP US); **H01L 2224/8382** (2013.01 - CN EP US); **H01L 2224/8384** (2013.01 - CN EP US); **H01L 2224/8385** (2013.01 - EP); **H01L 2224/85001** (2013.01 - US); **H01L 2924/00011** (2013.01 - EP); **H01L 2924/00014** (2013.01 - EP US); **H01L 2924/00015** (2013.01 - CN EP US); **H01L 2924/01013** (2013.01 - CN EP US); **H01L 2924/01014** (2013.01 - CN EP US); **H01L 2924/01015** (2013.01 - CN EP US); **H01L 2924/01028** (2013.01 - CN EP US); **H01L 2924/01029** (2013.01 - CN EP US); **H01L 2924/01047** (2013.01 - CN EP US); **H01L 2924/10162** (2013.01 - EP); **H01L 2924/10253** (2013.01 - CN EP US); **H01L 2924/1203** (2013.01 - CN EP US); **H01L 2924/181** (2013.01 - EP US)

C-Set (source: CN EP US)

CN

1. **H01L 2224/83801 + H01L 2924/00015**
2. **H01L 2224/8384 + H01L 2924/00015**
3. **H01L 2224/8382 + H01L 2924/00015**
4. **H01L 2224/45147 + H01L 2924/00014**
5. **H01L 2224/49111 + H01L 2924/00014**
6. **H01L 2224/45014 + H01L 2924/00014**
7. **H01L 2224/45015 + H01L 2924/2076**
8. **H01L 2224/73265 + H01L 2224/32225 + H01L 2224/48227 + H01L 2924/00**
9. **H01L 2224/49111 + H01L 2224/48472 + H01L 2924/00**
10. **H01L 2924/00015 + H01L 2224/45124**
11. **H01L 2224/48472 + H01L 2224/48227 + H01L 2924/00**
12. **H01L 2224/45014 + H01L 2224/45147 + H01L 2924/00**
13. **H01L 2924/01047 + H01L 2924/00**
14. **H01L 2924/01015 + H01L 2924/00**

EP

1. **H01L 2224/83801 + H01L 2924/00015**
2. **H01L 2224/8384 + H01L 2924/00015**
3. **H01L 2224/8382 + H01L 2924/00015**
4. **H01L 2224/45147 + H01L 2924/00014**
5. **H01L 2224/49111 + H01L 2924/00014**
6. **H01L 2224/45014 + H01L 2924/00014**
7. **H01L 2224/45015 + H01L 2924/2076**
8. **H01L 2224/73265 + H01L 2224/32225 + H01L 2224/48227 + H01L 2924/00**
9. **H01L 2924/00015 + H01L 2224/45124**
10. **H01L 2224/49111 + H01L 2224/48472 + H01L 2924/00**
11. **H01L 2224/48472 + H01L 2224/48227 + H01L 2924/00**

12. H01L 2224/45014 + H01L 2224/45147 + H01L 2924/00
13. H01L 2924/01047 + H01L 2924/00
14. H01L 2924/01015 + H01L 2924/00
15. H01L 2224/04042 + H01L 2924/00
16. H01L 2224/45124 + H01L 2924/00015
17. H01L 2924/181 + H01L 2924/00
18. H01L 2224/45139 + H01L 2924/00011
19. H01L 2924/00014 + H01L 2224/45014 + H01L 2924/206
20. H01L 2224/05647 + H01L 2924/00014
21. H01L 2224/05644 + H01L 2924/00014
22. H01L 2224/05639 + H01L 2924/00014
23. H01L 2224/05624 + H01L 2924/00014
24. H01L 2224/05541 + H01L 2924/206
25. H01L 2224/4801 + H01L 2924/207
26. H01L 2924/00014 + H01L 2224/45099
27. H01L 2224/05139 + H01L 2924/00014
28. H01L 2224/48824 + H01L 2924/00
29. H01L 2224/48839 + H01L 2924/00
30. H01L 2224/48844 + H01L 2924/00
31. H01L 2224/061 + H01L 2924/00012
32. H01L 2224/48847 + H01L 2924/00
33. H01L 2924/00011 + H01L 2924/01049

US

1. H01L 2224/83801 + H01L 2924/00015
2. H01L 2224/8384 + H01L 2924/00015
3. H01L 2224/8382 + H01L 2924/00015
4. H01L 2224/45147 + H01L 2924/00014
5. H01L 2224/49111 + H01L 2924/00014
6. H01L 2224/45014 + H01L 2924/00014
7. H01L 2224/45015 + H01L 2924/2076
8. H01L 2224/73265 + H01L 2224/32225 + H01L 2224/48227 + H01L 2924/00
9. H01L 2924/00015 + H01L 2224/45124
10. H01L 2224/49111 + H01L 2224/48472 + H01L 2924/00
11. H01L 2224/48472 + H01L 2224/48227 + H01L 2924/00
12. H01L 2224/45014 + H01L 2224/45147 + H01L 2924/00
13. H01L 2924/01047 + H01L 2924/00
14. H01L 2924/01015 + H01L 2924/00
15. H01L 2224/04042 + H01L 2924/00
16. H01L 2224/45139 + H01L 2924/00
17. H01L 2224/45124 + H01L 2924/00015
18. H01L 2924/181 + H01L 2924/00
19. H01L 2224/45139 + H01L 2924/00011
20. H01L 2924/00014 + H01L 2224/45014 + H01L 2924/206

Cited by

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102011115887 A1 20130418; CN 103890924 A 20140625; CN 103890924 B 20170215; EP 2766922 A1 20140820;
JP 2014532308 A 20141204; JP 5837697 B2 20151224; US 2014225247 A1 20140814; US 2016225738 A1 20160804;
US 9318421 B2 20160419; US 9613929 B2 20170404; WO 2013053420 A1 20130418

DOCDB simple family (application)

DE 102011115887 A 20111015; CN 201280050678 A 20120910; EP 12769904 A 20120910; EP 2012003787 W 20120910;
JP 2014533780 A 20120910; US 201214346458 A 20120910; US 201615095802 A 20160411