

Title (en)  
METALLIC MATERIAL HAVING EXCELLENT METAL DUSTING RESISTANCE

Title (de)  
METALLMATERIAL MIT HERVORRAGENDER METAL-DUSTING-BESTÄNDIGKEIT

Title (fr)  
MATERIAU METALLIQUE AYANT UNE EXCELLENTE RESISTANCE AU POUSSIERAGE METALLIQUE

Publication  
**EP 1975267 A1 20081001 (EN)**

Application  
**EP 07706448 A 20070109**

Priority  
• JP 2007050101 W 20070109  
• JP 2006003479 A 20060111  
• JP 2006003481 A 20060111

Abstract (en)  
[Objective] To provide a metal material having excellent metal dusting resistance which is suited for using cracking furnaces, reforming furnaces, heating furnaces or heat exchangers, in petroleum refining, petrochemical plants, etc. [Means for Solution] A metal material having excellent metal dusting resistance, characterized in comprising, by mass %, C: 0.01 to 0.4%, Si: 0.01 to 2.5%, Mn: 0.01 to 2.5%, Cr: 15 to 35%, Ni: 20 to 65%, Cu: 0.05 to 20%, S: not more than 0.1%, N: not more than 0.25% and O (oxygen): not more than 0.02% and the balance Fe and impurities, and also containing, by mass %, one or more selected among the elements of P: more than 0.05% and not more than 0.8%, Sb: 0.001 to 1% and Bi: 0.001 to 0.5. It may further contain one or more selected among the elements of Nd: 0.001 to 0.15%, Co: not more than 10%, Mo: not more than 3%, W: not more than 6%, Ti: not more than 1%, Nb: not more than 2%, B: not more than 0.1%, Zr: not more than 1.2%, Hf: not more than 0.5%, Mg: not more than 0.1%, Ca: not more than 0.1%, Al: not more than 0.8%, Y: not more than 0.15%, La: not more than 0.15% and Ce: not more than 0.15%.

IPC 8 full level  
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Cited by  
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