

Title (en)

Absorbing layer for a high-frequency heating catalyst

Title (de)

Absorberschicht für einen mit Hochfrequenz beheizbaren Katalysator

Title (fr)

Couche d'absorption pour un catalyseur à chauffage à haute fréquence

Publication

**EP 0872911 A3 20000503 (EN)**

Application

**EP 98106509 A 19980408**

Priority

- JP 9759597 A 19970415
- JP 10053097 A 19970417

Abstract (en)

[origin: EP0872911A2] The high-frequency heating catalyst of the present invention comprises a high-frequency absorbing layer formed on the surface of a substrate made from a material which rarely absorbs a high-frequency wave and made from a high-frequency absorbing material and a catalyst such as Pd, Pd/Rh or Pt/Rh, carried by the high-frequency absorbing layer, for making clean harmful substances contained in exhaust gas. Since the high-frequency absorbing layer is made from a mixture of an electroconductive metal oxide and an insulating material having an impedance adjusted to the characteristic impedance of a medium through which a high-frequency wave is transmitted such that reflection power ratio becomes 10 dB or more, the high-frequency wave can be absorbed and converted into heat energy effectively. <IMAGE>

IPC 1-7

**H01Q 17/00**; **H05B 6/80**; **F01N 3/02**; **F01N 3/20**

IPC 8 full level

**H05B 6/02** (2006.01)

CPC (source: EP)

**H05B 6/108** (2013.01)

Citation (search report)

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- [A] US 5258596 A 19931102 - FABISH THOMAS J [US], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 388 (C - 1086) 21 July 1993 (1993-07-21)
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 217 (M - 1403) 28 April 1993 (1993-04-28)

Cited by

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