

## Title (en)

Ferritic heat-resistant steel and method for producing it

## Title (de)

Ferritischer, wärmebeständiger Stahl und Verfahren zur Herstellung

## Title (fr)

Acier ferritique réfractaire et procédé de fabrication

## Publication

**EP 1329531 A3 20030730 (EN)**

## Application

**EP 03007332 A 19980921**

## Priority

- EP 98307629 A 19980921
- JP 25647997 A 19970922
- JP 25648097 A 19970922
- JP 25648197 A 19970922

## Abstract (en)

[origin: EP0903421A1] The invention provides a ferritic heat-resistant steel having excellent high-temperature oxidation resistance, especially excellent steam oxidation-resistant characteristics. In high-Cr ferritic heat-resistant steel, ultra-fine oxide particles having a size of not larger than 1  $\mu$  m are formed just below the oxide films and formed on the steel base, whereby the adhesiveness between the films and the base is enhanced. The ferritic heat-resistant steel consists of: C from 0.02 to 0.18%, Si up to 1.0%, Mn up to 1.5%, P up to 0.030%, S up to 0.015%, Cr from 8.0 to 13.0%, Mo up to 2%, W up to 4%, with W + 2Mo  $\leq$  4% V from 0.10 to 0.50%, Nb from 0.02 to 0.14% either Ti and/or Y, with 0.01  $\leq$  Ti + Y  $\leq$  0.30% either Rh and/or Ir, with 0.3%  $\leq$  Rh + (1/2)Ir  $\leq$  5% either Pd and/or Pt in a total amount between 0.3 and 5% balance Fe

## IPC 1-7

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## IPC 8 full level

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## CPC (source: EP US)

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## Citation (search report)

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BE DE

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## DOCDB simple family (application)

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