

Title (en)
METAL NITRIDE COATED SUBSTRATES.

Title (de)
METALLNITRID BESCHICHTETE SUBSTRATE.

Title (fr)
SUBSTRATS RECOUVERTS DE NITRURES METALLIQUES.

Publication
EP 0674723 A1 19951004 (EN)

Application
EP 94904442 A 19931214

Priority
• US 9312150 W 19931214
• US 99192992 A 19921217

Abstract (en)
[origin: WO9413853A1] A metal nitride coated substrate can be made by coating the substrate with an oxide of Al, Ti, or Zr or a hydroxide of Al, Ti, or Zr derived from a sol gel. The coated substrate is heated to a reaction temperature of at least about 850 DEG C and contacted with a gaseous reactant mixture comprising a nitrogen source and a carbon source. The molar ratio of nitrogen to carbon in the gaseous reactant mixture is at least about 15. The coated substrate is maintained at the reaction temperature for a sufficient time to convert the sol gel-derived coating to a metal nitride coating.

IPC 1-7
C23C 18/12; **C04B 41/50**

IPC 8 full level
C04B 41/50 (2006.01); **C04B 41/87** (2006.01); **C23C 18/12** (2006.01); **C23C 24/08** (2006.01); **C23C 28/04** (2006.01)

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C04B 41/5062 (2013.01 - EP); **C23C 18/1204** (2013.01 - EP KR); **C23C 18/1245** (2013.01 - EP KR); **C23C 18/1254** (2013.01 - EP KR); **C23C 18/1275** (2013.01 - EP); **C23C 18/1279** (2013.01 - KR)

Citation (search report)
See references of WO 9413853A1

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