

Title (en)
NICKEL-CHROME ALLOYS

Title (de)
NICKEL-CHROM-LEGIERUNGEN

Title (fr)
ALLIAGES NICKEL-CHROME

Publication
EP 4357471 A1 20240424 (EN)

Application
EP 22202777 A 20221020

Priority
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Abstract (en)
Herein is disclosed nickel-chrome alloys suitable for use as matrix alloys for holding particles of metal carbides for high abrasive wear resistance in high carbide volume fractions with high corrosion resistance. Further, direct synthesis of nickel-chrome alloys of the disclosure containing precipitates of metal carbides are detailed.

IPC 8 full level
C22C 1/04 (2023.01); **C22C 1/055** (2023.01); **C22C 19/05** (2006.01); **C22C 29/00** (2006.01); **C22C 29/06** (2006.01); **C22C 32/00** (2006.01)

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Citation (applicant)
• DE 19901170 A1 20000427 - REILOY METALL GMBH [DE]
• K. BOBZIN: "New Possibilities for Fe-based HVOF-sprayed coatings", 11. KOLLOQUIUM HVOF SPRAYING 2018, CONFERENCE PROCEEDINGS, pages 19 - 30

Citation (search report)
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• [A] US 3890816 A 19750624 - ALLEN ROBERT E, et al
• [A] EP 1052305 A2 20001115 - BOEHLER EDELSTAHL GMBH & CO KG [AT]
• [A] CN 106424714 A 20170222 - UNIV CHINA MINING & TECH
• [A] JP 2016056436 A 20160421 - NIPPON STEEL & SUMITOMO METAL CORP

Designated contracting state (EPC)
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Designated extension state (EPC)
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