

Title (en)
Method for continuously manufacturing cold-rolled steel

Title (de)
Verfahren zur kontinuierlichen Herstellung von kaltgewalztem Stahl

Title (fr)
Procédé de fabrication continue d'acier laminé à froid

Publication
EP 2067541 A1 20090610 (EN)

Application
EP 07254712 A 20071205

Priority
EP 07254712 A 20071205

Abstract (en)
A method for continuously manufacturing cold-rolled steel includes the steps of: providing coils (100) of white steel (400) that are manufactured by hot rolling a cast steel followed by annealing and pickling the cast steel; subjecting the coil (100) of white steel (400) to uncoiling and welding in an uncoiling-welding installation (21); passing the flattened and welded white steel (400) through a first strip accumulator (22) and a cold rolling device (23) for cold rolling the white steel (400) to result in a cold-rolled steel with a predetermined thickness; and processing the cold-rolled steel in sequence using a degreasing device (24), a second strip accumulator (25), an annealing-pickling installation (26), a third strip accumulator (27), a temper rolling device (28), a tension leveling device (29), a fourth strip accumulator (31), and a trimming-recoiling installation (32).

IPC 8 full level
B21B 1/28 (2006.01); **C21D 8/02** (2006.01); **C23G 3/02** (2006.01)

CPC (source: EP)
B21B 1/28 (2013.01); **C21D 8/02** (2013.01); **C21D 8/0205** (2013.01); **C23G 3/02** (2013.01); **B21B 1/22** (2013.01); **B21B 3/02** (2013.01); **B21B 15/0085** (2013.01); **B21B 39/08** (2013.01); **B21B 45/0269** (2013.01); **B21B 2015/0014** (2013.01); **B21B 2015/0064** (2013.01)

Citation (applicant)
• US 6478899 B1 20021112 - LEGRAND HUGUES [US], et al
• US 6546771 B1 20030415 - LJUNGARS STEN [SE]

Citation (search report)
• [AD] US 6546771 B1 20030415 - LJUNGARS STEN [SE]
• [A] DE 10209406 A1 20030424 - HITACHI LTD [JP]
• [A] DE 19843382 A1 20000323 - SCHLOEMANN SIEMAG AG [DE]
• [A] US 5820704 A 19981013 - VEYER JEAN [FR], et al

Cited by
CN106881352A; EP2769779A1; CN106799596A; CN116673335A; CN110306016A; JP2022518735A; CN106271665A; CN114433624A; US9573174B2; WO2014127864A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2067541 A1 20090610; **EP 2067541 B1 20120328**; AT E551131 T1 20120415; ES 2384734 T3 20120711; PL 2067541 T3 20120831; SI 2067541 T1 20120928

DOCDB simple family (application)
EP 07254712 A 20071205; AT 07254712 T 20071205; ES 07254712 T 20071205; PL 07254712 T 20071205; SI 200730946 T 20071205