

Title (en)

PROCESS FOR MANUFACTURING A LIGHT METAL WHEEL IN A SINGLE PIECE FROM A WROUGHT ALUMINIUM MATERIAL.

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES EINTEILIGEN LEICHTMETALLRADES AUS EINEM ALUMINIUM-KNETWERKSTOFF.

Title (fr)

PROCEDE DE FABRICATION D'UNE ROUE EN METAL LEGER, D'UNE SEULE PIECE, EN UN MATERIAU D'ALUMINIUM CORROYE.

Publication

EP 0684883 A1 19951206 (DE)

Application

EP 94904966 A 19940122

Priority

- DE 9400063 W 19940122
- DE 4305091 A 19930219

Abstract (en)

[origin: WO9419127A1] A process is disclosed for manufacturing a light metal wheel in a single piece from a wrought aluminium material, preferably an alloy of the AlMgSi type, by flow turning or rolling a warm blank. The blank is solution heat treated at temperatures around 530 DEG C, then is quenched and artificially aged at approximately 150 DEG to 200 DEG . The solution heat treated blank is controllably quenched at approximately 200 DEG C, is flow turned or rolled at this temperature, while a further temperature rise is avoided, and is then artificially aged.

IPC 1-7

B21H 1/10; **B21D 53/26**; **C22F 1/05**

IPC 8 full level

B21D 53/26 (2006.01); **B21H 1/10** (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP KR)

B21D 53/26 (2013.01 - KR); **B21D 53/264** (2013.01 - EP); **B21H 1/10** (2013.01 - EP KR); **C22F 1/04** (2013.01 - EP); **C22F 1/05** (2013.01 - EP KR)

Citation (search report)

See references of WO 9419127A1

Cited by

US9757784B2; US8496764B2

Designated contracting state (EPC)

AT BE CH DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9419127 A1 19940901; AT E150992 T1 19970415; AU 5878894 A 19940914; CZ 207095 A3 19960313; CZ 292222 B6 20030813; DE 4305091 C1 19940310; EP 0684883 A1 19951206; EP 0684883 B1 19970402; HU 212741 B 19961028; HU 9502444 D0 19951030; HU T71759 A 19960129; JP H08505660 A 19960618; KR 0178603 B1 19990218; KR 960700838 A 19960224; NO 301109 B1 19970915; NO 952166 D0 19950601; NO 952166 L 19950616; SK 101895 A3 19970604; SK 279051 B6 19980603

DOCDB simple family (application)

DE 9400063 W 19940122; AT 94904966 T 19940122; AU 5878894 A 19940122; CZ 207095 A 19940122; DE 4305091 A 19930219; EP 94904966 A 19940122; HU 9502444 A 19940122; JP 51852894 A 19940122; KR 19950703462 A 19950818; NO 952166 A 19950601; SK 101895 A 19940122