

Title (en)
Aluminium lamination process

Title (de)
Verfahren zum Walzen von Aluminium

Title (fr)
Procédé de laminage d'aluminium

Publication
EP 1454680 A1 20040908 (EN)

Application
EP 03380047 A 20030304

Priority
EP 03380047 A 20030304

Abstract (en)
Starting from a continuous casting furnace (1), fed with scraps, ingots or any other aluminum presentation, the cast metal is urged to pass through a solidification and rolling machine (5), a 19 mm-thick aluminum sheet being obtained. Then, this sheet is subjected to three successive hot rolling phases in respective rolling towers (8-8'-8''), attaining at its outlet a 1.5 mm thickness. Then, the aluminum sheet is subjected to two cold rolling phases until attaining a 0.54 mm thickness and, after intermediate annealing, it is subjected to a final cold rolling phase in which the definitive 0.25 mm thickness is obtained. The process achieves cutting the time of 34 hours corresponding to a classic continuous casting process down to 19 hours. <IMAGE>

IPC 1-7
B21B 3/00; **C22F 1/04**

IPC 8 full level
B21B 3/00 (2006.01); **C22F 1/04** (2006.01)

CPC (source: EP)
B21B 3/003 (2013.01); **C22F 1/04** (2013.01); **B21B 2003/001** (2013.01)

Citation (search report)
• [X] US 4238248 A 19801209 - BOLLIGER MARTIN [CH], et al
• [X] US 5104465 A 19920414 - MCAULIFFE DONALD C [US], et al
• [A] US 5496423 A 19960305 - WYATT-MAIR GAVIN F [US], et al

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