

Title (en)

PROCESS AND APPARATUS FOR COOLING BILLETS

Publication

**EP 0001770 B1 19800903 (DE)**

Application

**EP 78101138 A 19781013**

Priority

DE 2750085 A 19771109

Abstract (en)

[origin: EP0001770A1] 1. Method of cooling billets, which are of square or rectangular cross-section and moved by means of a transport device, by water, in which the billets are acted on simultaneously from two mutually opposed sides by divergent water jets directed towards one another, characterised thereby, that the billets (2 or 12) are acted on by the water jets (4, 5 or 14, 15) along or approximately along their cross-sectional diagonals as well as simultaneously and uniformly (8 or 18) on all outline surfaces.

IPC 1-7

**B21B 45/02**

IPC 8 full level

**B21B 45/02** (2006.01); **C21D 9/00** (2006.01); **B22D 11/124** (2006.01)

CPC (source: EP)

**B21B 45/0215** (2013.01)

Cited by

DE4140930A1; US7226343B2

Designated contracting state (EPC)

CH DE FR GB LU SE

DOCDB simple family (publication)

**EP 0001770 A1 19790516; EP 0001770 B1 19800903**; AT 364749 B 19811110; AT A787478 A 19810415; DE 2750085 B1 19790426; DE 2750085 C2 19791213; DE 2860151 D1 19801211; IT 1100053 B 19850928; IT 7829399 A0 19781103; JP S5475414 A 19790616

DOCDB simple family (application)

**EP 78101138 A 19781013**; AT 787478 A 19781103; DE 2750085 A 19771109; DE 2860151 T 19781013; IT 2939978 A 19781103; JP 13739578 A 19781109