

Title (en)
METHOD FOR HARDENING AND TEMPERING STEEL STRIPS

Title (de)
VERFAHREN ZUM VERGÜTEN VON STAHLBÄNDERN

Title (fr)
PROCEDE D'AMELIORATION DE FEUILLARDS D'ACIER

Publication
EP 1060277 A1 20001220 (DE)

Application
EP 99955822 A 19990930

Priority
• DE 9903152 W 19990930
• DE 19860472 A 19981228

Abstract (en)
[origin: DE19860472A1] The invention relates to a method for the continuous hardening and tempering of steel strips. According to this method, for hardening the strip material is heated to a hardening temperature and then quenched and for tempering said material is exposed to a tempering temperature. To obtain virtually constant hardening in a steel strip whose thickness varies along its length, the strip material is heated during tempering in such a way that it does not reach the tempering temperature until shortly before leaving the tempering zone. As a result the duration of exposure to the tempering temperature has no effect on the strip material's final hardness, which is instead determined exclusively by the tempering temperature.

IPC 1-7
C21D 9/52; **C21D 9/56**

IPC 8 full level
C21D 1/18 (2006.01); **C21D 9/52** (2006.01); **C21D 9/56** (2006.01)

CPC (source: EP)
C21D 9/52 (2013.01); **C21D 9/56** (2013.01); **C21D 1/18** (2013.01)

Citation (search report)
See references of WO 0039349A1

Designated contracting state (EPC)
BE DE ES FR GB IT

DOCDB simple family (publication)
DE 19860472 A1 20000706; EP 1060277 A1 20001220; JP 2002533575 A 20021008; WO 0039349 A1 20000706

DOCDB simple family (application)
DE 19860472 A 19981228; DE 9903152 W 19990930; EP 99955822 A 19990930; JP 2000591237 A 19990930