

Title (en)
METHOD FOR AUSTEMPERING STEEL PARTS

Title (de)
VERFAHREN ZUM BAINITISIEREN VON STAHLTEILEN

Title (fr)
PROC D DE BAINITATION D' L MENTS EN ACIER

Publication
EP 1248862 B1 20050518 (DE)

Application
EP 00984836 A 20001018

Priority
• DE 0003668 W 20001018
• DE 19963973 A 19991231

Abstract (en)
[origin: US6843867B1] A method of austempering of steel parts is described. The steel parts are initially austenitized and subsequently quenched to a start temperature which is higher than the martensite start temperature. Then the steel parts are subjected to a first isothermal holding at the start temperature for a first time period. Subsequently the steel parts are held for a second isothermal time period at a finish temperature which is higher than the start temperature. The method described is particularly well suited for rapid austempering of steel parts, a pure bainitic structure being achievable, and the core hardness of the steel parts obtained being settable via the start temperature, the finish temperature, the duration of the first time period, and the duration of the second time period.

IPC 1-7
C21D 1/20

IPC 8 full level
C21D 6/00 (2006.01); **C21D 1/20** (2006.01)

CPC (source: EP US)
C21D 1/20 (2013.01 - EP US); **C21D 2211/002** (2013.01 - EP US)

Cited by
DE102007061084A1

Designated contracting state (EPC)
AT DE FR GB IT

DOCDB simple family (publication)
US 6843867 B1 20050118; AT E295901 T1 20050615; DE 19963973 C1 20010531; DE 50010362 D1 20050623; EP 1248862 A1 20021016; EP 1248862 B1 20050518; JP 2004510048 A 20040402; JP 5231700 B2 20130710; WO 0149888 A1 20010712; WO 0149888 A9 20030605

DOCDB simple family (application)
US 16944402 A 20021004; AT 00984836 T 20001018; DE 0003668 W 20001018; DE 19963973 A 19991231; DE 50010362 T 20001018; EP 00984836 A 20001018; JP 2001550415 A 20001018