

Title (en)  
ENERGIZATION HEATING DEVICE AND HOT PRESS FORMING DEVICE HAVING IT AND CONDUCTION HEATING METHOD

Title (de)  
ERREGUNGSHEIZVORRICHTUNG UND HEISSPRESSFORMVORRICHTUNG DAMIT SOWIE LEITUNGSHEIZVERFAHREN

Title (fr)  
DISPOSITIF DE CHAUFFAGE PAR EXCITATION, DISPOSITIF DE PRESSAGE À CHAUD COMPORTANT UN TEL DISPOSITIF DE CHAUFFAGE, ET PROCÉDÉ DE CHAUFFAGE PAR CONDUCTION

Publication  
**EP 2236226 A4 20120919 (EN)**

Application  
**EP 08859822 A 20080926**

Priority  
• JP 2008067475 W 20080926  
• JP 2007322507 A 20071213

Abstract (en)  
[origin: EP2236226A1] To provide a conduction heating apparatus which is capable of preventing distortion of a work due to conduction heating as much as possible, and stably supplying a conduction heated work to the downstream step of conduction heating, and a hot press forming apparatus having the conduction heating apparatus, and a hot press forming method. The conduction heating apparatus 3 that performs conduction heating while clamping a work W to be hot press-formed by a clamping mechanism (30, 31, and the like) to apply tension to the work W, in which the clamping mechanism (30, 31, and the like) has a stationary clamping member 30 and a movable clamping member 31, a lifting up/down cylinder 32 for the stationary clamping member 30 and the movable clamping member 31, and tensioning cylinders 33a and 33b that drive the movable clamping member 31 along the planar direction of the work W, and in conduction heating, the stationary clamping member 30 clamps one side of the work W and hold it, and the movable clamping member 31 moves while holding the other side of the work W according to thermal deformation of the work W, which applies tension to the work W corresponding to the thermal deformation of the work W.

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CPC (source: EP US)  
**C21D 1/40** (2013.01 - EP US); **C21D 1/673** (2013.01 - EP US); **H05B 3/0004** (2013.01 - EP US)

Citation (search report)  
• [X1] JP S5841642 A 19830310 - DAIDO STEEL CO LTD  
• [X1] JP S5853340 A 19830329 - DAIDO STEEL CO LTD  
• See references of WO 2009075134A1

Cited by  
CN106466931A; CN103801613A; CN104471086A; EP3316661A1; CN110560571A; US10271384B2; WO2014010712A1

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