

Title (en)  
MANUFACTURING EQUIPMENT AND MANUFACTURING METHOD FOR STEEL PLATE

Title (de)  
FERTIGUNGSANLAGE UND VERFAHREN ZUR HERSTELLUNG EINER STAHLPLATTE

Title (fr)  
ÉQUIPEMENT ET PROCÉDÉ DE FABRICATION DE TÔLE D'ACIER

Publication  
**EP 4066956 A4 20230111 (EN)**

Application  
**EP 20893260 A 20201118**

Priority  
• JP 2019212625 A 20191125  
• JP 2020043061 W 20201118

Abstract (en)  
[origin: EP4066956A1] To provide manufacturing equipment and a manufacturing method for a steel plate capable of performing more uniform cooling during heat treatment of the steel plate and manufacturing a flat and homogeneous steel plate. Manufacturing equipment (heat treatment equipment (1)) for a steel plate (2) according to an aspect of the present invention is manufacturing equipment for a steel plate (2), in which the steel plate (2) is heat-treated, the equipment including a heating furnace (3) configured to heat the steel plate (2) having a temperature of 100°C or lower, a first flattening device (4) configured to flatten the heated steel plate (2), a quenching device (5) configured to quench the flattened steel plate (2), and a second flattening device (6) configured to flatten the quenched steel plate (2).

IPC 8 full level  
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**B21B 1/22** (2013.01 - KR); **B21B 45/02** (2013.01 - KR); **B21D 1/05** (2013.01 - KR); **C21D 1/19** (2013.01 - KR); **C21D 1/28** (2013.01 - EP); **C21D 1/60** (2013.01 - EP); **C21D 1/63** (2013.01 - KR); **C21D 8/0205** (2013.01 - EP); **C21D 8/0236** (2013.01 - KR); **C21D 8/0242** (2013.01 - EP); **C21D 8/0247** (2013.01 - EP KR); **C21D 9/0056** (2013.01 - EP); **C21D 9/0062** (2013.01 - EP); **C21D 9/46** (2013.01 - EP KR); **C21D 9/56** (2013.01 - EP); **B21B 2001/221** (2013.01 - KR); **B21D 1/02** (2013.01 - EP)

Citation (search report)  
• [X1] JP 2005279703 A 20051013 - JFE STEEL KK  
• [X1] EP 2412455 A1 20120201 - JFE STEEL CORP [JP]  
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• [A] JP S61126909 A 19860614 - SUMITOMO METAL IND  
• See also references of WO 2021106723A1

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