

Title (en)

COOLING FACILITY AND PRODUCTION METHOD OF STEEL PLATE

Title (de)

STAHLBLECHABKÜHLANLAGE UND -HERSTELLUNGSVERFAHREN

Title (fr)

ÉQUIPEMENT DE REFROIDISSEMENT ET PROCÉDÉ DE FABRICATION DE PLAQUE D'ACIER

Publication

**EP 1930092 A4 20111207 (EN)**

Application

**EP 06783171 A 20060829**

Priority

- JP 2006317399 W 20060829
- JP 2005278997 A 20050927

Abstract (en)

[origin: EP1930092A1] The invention provides cooling equipment of a steel plate or sheet, which has good equipment maintainability, has excellent draining property when supplying a large amount of cooling water to the under surface of the steel plate or sheet, and performs efficient cooling uniformly in a widthwise direction to achieve high cooling speed; and a method of manufacturing the steel plate or sheet having high quality. More specifically, the cooling equipment includes a plurality of protector plates 34 and nozzle trains. The protector plates 34 are disposed obliquely with respect to a direction of transferring of a steel plate or sheet 10 and at equal intervals. The nozzle trains are provided between the protector plates 34 and obliquely with respect to the direction of transferring, for supplying cooling water to the under surface of the steel plate or sheet 10. The nozzle trains have the same number of tube-shaped nozzles 32 disposed, respectively, on virtual lines 36 drawn at certain pitches in a plate or sheet width direction, and the top ends of the circular-tube-shaped nozzles 32 are positioned below the top ends of the protector plates 34.

IPC 8 full level

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CPC (source: EP KR)

**B21B 37/74** (2013.01 - KR); **B21B 37/76** (2013.01 - KR); **B21B 45/02** (2013.01 - KR); **B21B 45/0218** (2013.01 - EP)

Citation (search report)

- [XY] JP S60166413 U 19851105
- [Y] EP 1527829 A1 20050504 - JFE STEEL CORP [JP]
- [A] JP H07214136 A 19950815 - KAWASAKI STEEL CO
- [A] JP H04200816 A 19920721 - KAWASAKI STEEL CO
- [A] JP S58175805 U 19831124
- See references of WO 2007037095A1

Cited by

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AT BE DE FR GB

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