

Title (en)

MEASURING SYSTEM FOR DETERMINING THE PHYSICAL QUANTITY OF A HOT LIQUID

Title (de)

MESSANORDNUNG ZUR BESTIMMUNG EINER PHYSIKALISCHEN GRÖSSE EINER HEISSEN FLÜSSIGKEIT

Title (fr)

DISPOSITIF DE MESURE POUR LA DETERMINATION D'UN PARAMETRE PHYSIQUE D'UN MILIEU LIQUIDE A HAUTE TEMPERATURE

Publication

**EP 1183506 A1 20020306 (DE)**

Application

**EP 00940252 A 20000516**

Priority

- DE 19925685 A 19990604
- EP 0004439 W 20000516

Abstract (en)

[origin: DE19925685A1] The invention relates to a system (1) for determining the physical quantity and/or for the chemical analysis of a hot liquid (3), especially of a steel melt or slag by optical means. Said system comprises an observation tube (4) that contacts the hot liquid and is fire-proof, an imaging device (6) that is mounted inside the observation tube or on its end and a measuring or analytical device (9) that is optically allocated to the imaging device. The observation tube (4) is freely arranged above the liquid level and from this position dips into the liquid (3).

IPC 1-7

**G01J 5/04**; **G01J 5/08**

IPC 8 full level

**B22D 2/00** (2006.01); **C21C 5/46** (2006.01); **G01J 5/04** (2006.01); **G01J 5/08** (2006.01)

CPC (source: EP US)

**B22D 2/00** (2013.01 - EP); **C21C 5/4673** (2013.01 - EP); **G01J 5/0037** (2013.01 - EP); **G01J 5/004** (2013.01 - EP); **G01J 5/02** (2013.01 - EP US); **G01J 5/04** (2013.01 - EP); **G01J 5/051** (2022.01 - EP); **G01J 5/061** (2013.01 - EP); **G01J 5/08** (2013.01 - EP); **G01J 5/0808** (2022.01 - EP); **G01J 5/0813** (2022.01 - US); **G01J 5/0818** (2013.01 - EP); **G01J 5/0821** (2013.01 - EP); **G01J 5/084** (2013.01 - EP)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**DE 19925685 A1 20001207**; AU 5524700 A 20001228; EP 1183506 A1 20020306; WO 0075614 A1 20001214

DOCDB simple family (application)

**DE 19925685 A 19990604**; AU 5524700 A 20000516; EP 0004439 W 20000516; EP 00940252 A 20000516