

Title (en)  
INSTALLATION FOR THE SURFACE TREATMENT OF WORKPIECES

Title (de)  
ANLAGE ZUR OBERFLÄCHENBEHANDLUNG VON WERKSTÜCKEN

Title (fr)  
INSTALLATION POUR LE TRAITEMENT DE SURFACE DE PIÈCES

Publication  
**EP 2731730 A1 20140521 (DE)**

Application  
**EP 12707277 A 20120229**

Priority  
• DE 102011051879 A 20110715  
• EP 2012053469 W 20120229

Abstract (en)  
[origin: WO2013010681A1] To create an installation for the surface treatment of workpieces which comprises at least one heat sink/treatment zone (118), to which heat is to be supplied during operation of the installation (100), and at least one heat source/treatment zone (120), from which heat is to be dissipated during operation of the installation (100), in which installation less energy is required to heat up the heat sink/treatment zone (118) and to cool the heat source/treatment zone 120, it is proposed that the installation comprise at least one heat pump device (124, 158, 176, 240) which is coupled, for absorbing heat, to at least one heat source/treatment zone (120) and, for dissipating heat, to at least one heat sink/treatment zone (118).

IPC 8 full level  
**C25D 13/22** (2006.01); **B05D 3/02** (2006.01); **B05D 7/14** (2006.01); **C21D 1/44** (2006.01); **C21D 9/00** (2006.01); **C23C 22/00** (2006.01)

CPC (source: EP)  
**C23C 22/00** (2013.01); **C25D 13/22** (2013.01); **B05D 3/02** (2013.01); **B05D 7/14** (2013.01); **C21D 1/44** (2013.01); **C21D 9/0062** (2013.01)

Citation (search report)  
See references of WO 2013010681A1

Cited by  
DE102019110636A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102011051879 A1 20130117**; **DE 102011051879 B4 20231109**; CN 103648660 A 20140319; CN 103648660 B 20160817; EP 2731730 A1 20140521; EP 2731730 B1 20160427; WO 2013010681 A1 20130124

DOCDB simple family (application)  
**DE 102011051879 A 20110715**; CN 201280035173 A 20120229; EP 12707277 A 20120229; EP 2012053469 W 20120229