

Title (en)

Apparatus for spraying, pickling or rinsing liquids on metal objects

Title (de)

Vorrichtung zum Aufspritzen von Beiz- oder Spülflüssigkeit auf ein metallisches Behandlungsgut

Title (fr)

Appareil pour projeter des liquides de décapage ou de rinçage sur des objets métalliques

Publication

EP 1122338 A3 20040121 (DE)

Application

EP 01100533 A 20010110

Priority

DE 10003847 A 20000131

Abstract (en)

[origin: EP1122338A2] The device has a spray pipe(2) with at least two spaced apart nozzle rows and sealed on an inner pipe(3). A row of holes(9) is provided in the inner pipe, and when the inner pipe is in situ these holes point to the product to be treated and align with the nozzles of one row in the outer pipe. The outer spray pipe on one side is rotatably mounted by a flange(5) in the wall of a tank, and on the other side the inner pipe is flanged on the opposite lying tank wall and connected to the fluid supply(12).

IPC 1-7

C23G 3/02; **B05B 1/16**

IPC 8 full level

B05B 1/20 (2006.01); **B05B 1/16** (2006.01); **C23G 3/00** (2006.01); **C23G 3/02** (2006.01)

CPC (source: EP)

B05B 1/1672 (2013.01); **C23G 3/023** (2013.01)

Citation (search report)

- [X] BE 1003788 A5 19920616 - COCKERILL SAMBRE SA
- [DA] DE 4409792 A1 19950928 - EKO STAHL GMBH [DE]
- [A] DE 2627957 A1 19780105 - HAMMELMANN PAUL MASCHF

Cited by

CN109866999A; CN108773492A; CN110355020A; CN102873044A; CN114892179A; EP2145981A3; EP3970863A1; CN114226087A; WO2022194770A1; WO2018130799A1; EP2145981A2; DE102008032933A1; WO2004111307A1

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EP 1122338 A2 20010808; **EP 1122338 A3 20040121**; **EP 1122338 B1 20070228**; AT E355403 T1 20060315; DE 10003847 A1 20010802; DE 50112093 D1 20070412; JP 2001271187 A 20011002

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