

Title (en)

Air pressure reused pneumatic hammer drill

Title (de)

Pneumatischer Hammerbohrer mit wiederverwendetem Luftdruck

Title (fr)

Marteau perforateur pneumatique réutilisant la pression de l'air

Publication

EP 2592214 A1 20130515 (EN)

Application

EP 11188680 A 20111110

Priority

EP 11188680 A 20111110

Abstract (en)

An air pressure reused pneumatic hammer drill comprises a rotary driven head (30), a housing (20) and a ground entry and operation unit (40) which includes a pneumatic hammer duct (42) to hold a hollow pneumatic hammer piston (421) and a drill (422), an integrated hood (43) with an air cycling chamber (430) communicating with the pneumatic hammer duct (42), a stone discharge duct (44) which has a first stone and air discharge duct (45) at an upper side communicating therewith, a discharge air inlet (431) running through the integrated hood (43) and communicating with the air cycling chamber (430), and an air discharge duct (432) communicating with the discharge air inlet (431) and the first stone and air discharge duct (45). The discharge air inlet (431) and the air discharge duct (432) are interposed by a check valve (433). Thus the invention not only can save electricity resource to reduce cost, but also can shorten working hours to save manpower to meet requirements in engineering industry.

IPC 8 full level

E21B 6/04 (2006.01); **E21B 4/14** (2006.01); **E21B 4/16** (2006.01)

CPC (source: EP)

E21B 4/14 (2013.01); **E21B 4/16** (2013.01); **E21B 6/04** (2013.01)

Citation (applicant)

TW 278559 B

Citation (search report)

- [X] GB 2181473 A 19870423 - TONE BORING CO
- [X] DE 2758385 A1 19790816 - KLEMM BOHRTECH
- [A] AU 6026173 A 19750313 - TAYLOR WOODROW INT LTD
- [A] DE 2162314 A1 19721123

Cited by

EP4215715A1; CN112475348A; KR20190085034A; EP3333356A1; WO2018103919A1; US10927624B2; EP3336301A1; WO2018114230A1; US10934779B2; EP3336301B1

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

Designated extension state (EPC)

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