

Title (en)
COMBINED DOWN-THE-HOLE HAMMER

Title (de)
KOMBINIERTER BOHRHAMMER

Title (fr)
MARTEAU COMBINÉ DE FOND DE TROU

Publication
EP 2623705 A4 20170419 (EN)

Application
EP 11827980 A 20110623

Priority

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- CN 201010298875 A 20100930
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Abstract (en)
[origin: EP2623705A1] A combined down-the-hole hammer comprises a coupler (1), a bracket (3), plurality of impactors (4), a gas distributor (2). The coupler is configured to connect with a drill rod (5) and is internally provided with a first gas passage (10). plurality of impactors (4) are installed on the bracket (3), each of which is individually provided with a second gas passage (40), and an impact drill bit (45) of each of the impactors (4) can rotate around the axis per se. The gas distributor (2) is provided between the coupler (1) and the bracket (3). The gas distributor (2) is provided with a gas collection chamber (21) communicated with the first gas passage (10) and a plurality of gas-distributing paths (22) communicating the gas collection chamber (21) with the second gas passage of each of the impactors (4). The combined down-the-hole hammer has the following advantages: low cost, rational structure, easy maintenance, convenient assembly/disassembly, reliable seal, and high efficiency of energy utilization and boring.

IPC 8 full level
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CPC (source: EP KR)
E21B 4/06 (2013.01 - KR); **E21B 4/14** (2013.01 - EP); **E21B 4/16** (2013.01 - EP)

Citation (search report)

- [X] DE 3024218 A1 19820121 - HYDROC GMBH [DE]
- [X] FR 2713276 A1 19950609 - BONIFACE ANDRE [FR]
- See references of WO 2012041084A1

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