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(54) **Method of designing a roller-cone drill bit.**

(57) Disclosed herein is a method for designing a roller cone drill bit having a plurality of roller cones and initial design parameters, comprising: simulating drilling an earth formation with the bit and determining as a result of the simulating, a drilling parameter of the bit; adjusting

at least one of the initial design parameters; repeating the simulating drilling; and repeating the adjusting, the simulating and the determining until the drilling parameter is optimised.

EP 1 498 575 A3



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EUROPEAN SEARCH REPORT

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EP 04 02 5235

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			
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CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

2
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 04 02 5235

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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