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(54) Method of designing a roller cone bit

(57) Disclosed herein is a method of designing a roller cone bit, comprising the steps of:

Calculating the trajectory of at least one tooth on each cone through formation material at the cutting face; and

Jointly optimising both the orientations of said teeth and the width of uncut rings on said cutting face, in dependence on said trajectory.

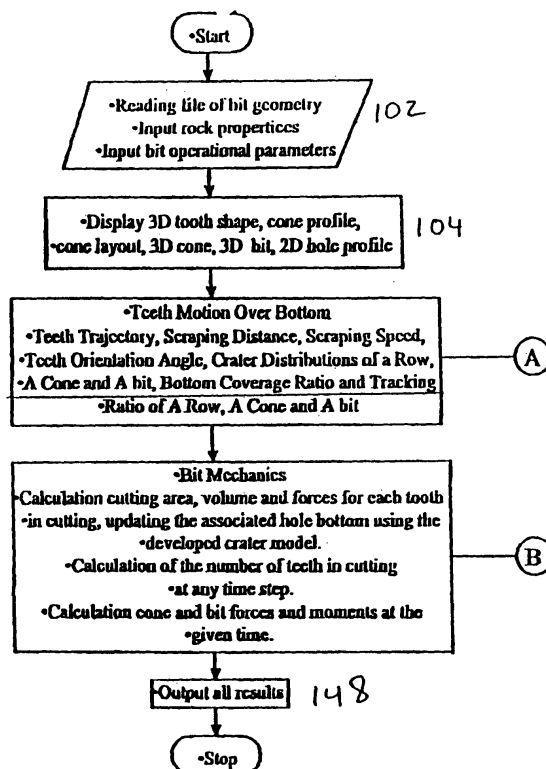


FIGURE 1A

EP 1 500 783 A3



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Place of search The Hague		Date of completion of the search 14 February 2006	Examiner Schouten, A
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2
EPO FORM 1503 03.82 (P04C01)



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2
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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