

Title (en)

METHOD FOR SIMULATING A SET OF ELEMENTS, AND ASSOCIATED COMPUTER PROGRAM

Title (de)

VERFAHREN ZUR SIMULATION EINER REIHE VON ELEMENTEN SOWIE ZUGEHÖRIGES COMPUTERPROGRAMM

Title (fr)

PROCÉDÉ DE SIMULATION D'UN ENSEMBLE D'ÉLÉMENTS, PROGRAMME D'ORDINATEUR ASSOCIÉ

Publication

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Application

**EP 13725145 A 20130523**

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Abstract (en)

[origin: WO2013174923A1] The invention relates to a method for simulating a system of elements, according to which the behaviour of said elements is determined on the basis of a Hamiltonian  $H$  of the system of elements, such that (formula I) in which  $p$  is a vector indicating the moments of the elements,  $q$  is a vector indicating the positions of the elements,  $M^{-1}$  is a diagonal matrix that is a function of the masses of the elements, and  $V$  is the potential energy of the system, said method comprising a step according to which, when the moment vector  $p$  takes certain pre-determined values relating to at least one element, a null value is allocated to at least one diagonal term of the matrix  $M^{-1}$  relating to the element.

IPC 8 full level

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