Title (en)
METHOD FOR GENERATING A CALCULATION MODEL FOR A MECHANICAL STRUCTURE

Title (de)
VERFAHREN ZUR ERZEUGUNG EINES BERECHNUNGSMODELLS EINER MECHANISCHEN STRUKTUR

Title (fr)
PROCEDE POUR ETABLIR UN MODELE DE CALCUL D'UNE STRUCTURE MECANIQUE

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Application
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Abstract (en)
[origin: WO2006053644A1] The invention concerns a method for generating a calculation model, in particular a finite element calculation model, for a mechanical structure, in particular a mechanical structure of a motor vehicle, such as a body-in-white, said method involving the following steps: a) preparing the mechanical structure from which a calculation model is to be generated; b) cleaning the mechanical structure; c) applying reference points to the cleaned and assembled mechanical structure; d) scanning the assembled mechanical structure in order to generate geometric data pertaining to the assembled mechanical structure, from the individual parts of the assembled mechanical structure and the reference points; e) at least partly dividing the assembled mechanical structure into individual parts, which cannot be completely detected when scanning the assembled mechanical structure; f) scanning the individual parts alone or in conjunction with at least one add-on part attached to each individual part in order to generate corresponding geometric data; g) converting the geometric data into a calculation model for the mechanical structure.

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G06F 30/15 (2020.01 - EP US); **G06F 30/23** (2020.01 - EP US)

Citation (search report)
See references of WO 2006053644A1

Citation (examination)
• EP 1471327 A2 20041027 - MITUTOYO CORP [JP]
• DE 10217068 A1 20040519 - GANDYRA MICHAEL [DE]

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