

Title (en)

METHOD AND DEVICE FOR PREDICTING AND/OR REDUCING THE DEFORMATION OF A MULTIPART ASSEMBLY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VORHERSAGE UND/ODER REDUZIERUNG DER VERFORMUNG EINER MEHRTEILIGEN BAUGRUPPE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR PRÉDIRE ET/OU RÉDUIRE LA DÉFORMATION D'UN SOUS-ENSEMBLE EN PLUSIEURS PARTIES

Publication

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Application

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Abstract (en)

[origin: WO2020233900A1] The invention relates to a device for predicting and/or reducing deformation of an assembly (110) that is caused during the production of at least one weld seam (203) for connecting a first component (201) and a second component (202) of the assembly (110). The device is designed to determine an FE model (310) of the assembly (110), wherein the FE model (310) comprises a number of FEs (311) for the weld seam (203) and a number of FEs (311) for the first and second components (201, 202). The device is also designed to bring about a spatial contraction of the number of FEs (311) for the weld seam (203), and to determine an effect of the spatial contraction on the number of FEs (311) for the first and/or the second component (201, 202). The device is also designed to predict a spatial deformation of the first component (201) and/or the second component (202) on the basis of the effect on the number of FEs (311) for the first and/or the second component (201, 202).

IPC 8 full level

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