

Title (en)

Method and arrangement for force measurement in connection with a manufacturing machine

Title (de)

Verfahren und Anordnung zur Kraftmessung in Verbindung mit einer Fertigungsmaschine

Title (fr)

Procédé et agencement pour la mesure de la force dans le contexte d'une machine de fabrication

Publication

**EP 2620545 A1 20130731 (EN)**

Application

**EP 12152451 A 20120125**

Priority

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Abstract (en)

The invention relates to a method for force measurement in connection with a manufacturing machine (10). In the method an indirect measurement is done by measuring deformation of at least one a frame part (21, 22, 23, 24, 25) or corresponding support structure in connection or near the force measurement target (N) of the manufacturing machine (10) by at least two strain gauges (31, 32, 33, 34, 35) or corresponding measuring devices with lower exactness and measurement value is given a weighting coefficient to get the force value (NF) of the measurement target (N). The invention also relates to an arrangement for force measurement in connection with a manufacturing machine (10). The arrangement comprises at least two strain gauges (31, 32, 33, 34, 35) or corresponding measuring devices with lower exactness for an indirect measurement by measuring deformation of at least one a frame part (21, 22, 23, 24, 25) or corresponding support structure in connection or near the force measurement target (N) of the manufacturing machine (10).

IPC 8 full level

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CPC (source: EP)

**D21G 1/004** (2013.01); **D21G 1/008** (2013.01); **D21G 9/0045** (2013.01)

Citation (applicant)

- US 4991499 A 19910212 - KUESTERS KARL-HEINZ [DE]
- US 3331313 A 19670718 - NOTBOHM WILLARD C, et al

Citation (search report)

- [X] WO 9925921 A1 19990527 - VALMET CORP [FI], et al
- [X] DE 10125379 A1 20021128 - VOITH PAPER PATENT GMBH [DE]
- [XD] US 4991499 A 19910212 - KUESTERS KARL-HEINZ [DE]
- [XD] US 3331313 A 19670718 - NOTBOHM WILLARD C, et al

Cited by

WO2023156705A1; CN107066658A

Designated contracting state (EPC)

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DOCDB simple family (publication)

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