

Title (en)

LOAD CELL FOR CHUCK WITH JAW FOR WORKPIECE HAVING CONSTANT HOLDING FORCE

Title (de)

WÄGEZELLE FÜR EIN SANNFUTTER MIT KLEMMBACKE FÜR EIN WERKSTÜCK MIT KONSTANTER HALTEKRAFT

Title (fr)

CELLULE DE CHARGE POUR MANDRIN COMPRENANT UNE MÂCHOIRE POUR PIÈCE PRÉSENTANT UNE FORCE DE MAINTIEN CONSTANTE

Publication

EP 2603341 A1 20130619 (EN)

Application

EP 11743939 A 20110808

Priority

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- US 2011046890 W 20110808

Abstract (en)

[origin: WO2012021429A1] A chuck for securing a workpiece in a machine provides a variable clamping force on the workpiece. The chuck includes a base element having a longitudinal center, and a plurality of jaw elements movable to clamp the workpiece. The jaw elements exert a measurable clamping force on the workpiece. One or more load cells are operably connected to the jaw elements to measure the clamping force exerted on the workpiece. The load cells are positioned within the jaw. A drive moves the jaw elements to vary the clamping force exerted on the workpiece and a control system includes a comparator to compare the measured clamping force to a predetermined clamping force. The jaw elements are movable, as the chuck is rotating, to adjust the clamping force on the workpiece relative to the predetermined clamping force. A jaw element includes an integrated load cell.

IPC 8 full level

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