

Title (en)
DEVICE AND METHOD FOR SENSING A TENSION IN A THREAD, AND METHOD FOR MOUNTING A SENSOR UNIT

Title (de)
VORRICHTUNG UND VERFAHREN ZUM ABTASTEN EINER FADENSpannung UND VERFAHREN ZUR MONTAGE EINER SENSOREINHEIT

Title (fr)
DISPOSITIF ET PROCÉDÉ DE DÉTECTION D'UNE TENSION DANS UN FIL, ET PROCÉDÉ DE MONTAGE D'UNE UNITÉ DE CAPTEUR

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Abstract (en)
The invention relates to a sensor device and a method for sensing a tension in a weft thread (1) between a weft presenter (4) and a gripper (6) on a gripper weaving machine (100), the sensor device (10) comprising a sensor unit (20) with a contact area (21), which sensor unit (20) is adapted to generate a response signal in response to a force applied by the weft thread (1) at the contact area (21), and a mounting arrangement (22) adapted for mounting the sensor unit (20) to the weaving machine (100) in a region between the weft presenter (4) and a shed (5), wherein the mounting arrangement (22) comprises an elastic damping element (25) adapted for isolating the sensor unit (20) mounted to the weaving machine (100) from vibrations of the weaving machine (100). The invention further relates to a weaving machine with a sensor unit for sensing a tension in a weft thread, and to a method for mounting a sensor unit to a weaving machine.

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Citation (applicant)
• US 5050648 A 19910924 - PEZZOLI LUIGI [IT]
• US 5725029 A 19980310 - LOEHR HEINZ-PETER [DE], et al
• US 6112776 A 20000905 - BERKTOLD KLAUS [CH]

Citation (search report)
• [XYI] EP 1005435 B1 20030409 - ELTEX SWEDEN AB [SE]
• [XYI] EP 0943713 A2 19990922 - MEMMINGER IRO GMBH [DE]
• [YD] DE 19535895 C1 19960613 - DORNIER GMBH LINDAUER [DE]

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