

Title (en)
MECHANICAL SYSTEM COMPRISING A CONNECTING DEVICE BETWEEN A WEARING PART AND THE SUPPORT THEREOF, AND BUCKET OF A HEAVY-CONSTRUCTION MACHINE

Title (de)
MECHANISCHES SYSTEM MIT VERBINDUNGSVORRICHTUNG ZWISCHEN EINEM VERSCHLEISSTEIL UND STÜTZE DAFÜR SOWIE SCHAUFEL EINER TIEFBAUMASCHINE

Title (fr)
SYSTÈME MÉCANIQUE COMPRENANT UN DISPOSITIF DE LIAISON ENTRE UNE PIÈCE D'USURE ET SON SUPPORT, ET GODET D'ENGIN DE TRAVAUX PUBLICS

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Abstract (en)
[origin: WO2015040101A1] The present invention relates to a mechanical system (1), comprising a support (10), a wearing part (20) and a connecting device (30) between the wearing part (20) and the support thereof (10). The device (30) comprises an elastic sheath (40) provided with an internal cavity (47) and with an external wall (44) that is adjustable in a housing (14) of the support (10), and a pin (50) having an elongate body along a pin axis (X50). According to the invention, the device (30) also comprises a cam (60) provided with an external wall (63) that is adjustable in the internal cavity (47) of the sheath (40) and with an internal cavity (64) intended to receive the pin (50), and when the device (30) is positioned in the housing (14) of the support (10), the pin (50) and the cam (60) are able to rotate as one in the internal cavity (47) of the sheath (40), between an insertion configuration (A) of the pin (50) into the cam (60) and at least one locking configuration in which the pin (50) bears, radially with respect to the pin axis (X50), against the wearing part (20), while the cam (60) bears against the sheath (40) and deforms the external wall (44) thereof counter to the housing (14) of the support (10), thereby forming a coupling connection between the wearing part (20) and the support (10).

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