Title (en)

COUPLER WITH COUPLING STATUS SENSORS

Title (de)

KOPPLER MIT KOPPELSTATUSSENSOREN

Title (fr)

COUPLEUR AVEC CAPTEURS D'ÉTAT DE COUPLAGE

Publication

EP 2350396 A1 20110803 (EN)

Application

EP 09753174 A 20091103

Priority

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Abstract (en)

[origin: GB2464988A] An excavator coupler 24 comprises a first jaw 30 that points in a generally longitudinal direction relative to the frame of the coupler 24 and is for receiving a first attachment pin of an accessory (28 fig. 1) and has a first sensor 40 for detecting the presence of an attachment pin therein. The coupler 24 may have a second jaw 32 or a latch 34, longitudinally spaced from the first jaw 30, for receiving a second attachment pin of the accessory (28 fig. 1), and having a second sensor 42 for detecting the presence of an attachment pin therein. The sensors 40, 42 transmit or send signals to a receiver 46, 48 for notifying the driver of the coupling status of the coupler 24 with respect to the accessory (28 fig. 1) e.g. by means of one or more coloured lights. An actuator for the latch 34 in the form of an hydraulic ram 36 may include a sensor 44 for detecting hydraulic pressure within the ram 36. The signals may be sent wirelessly. The sensors may be one or a combination of a strain sensor, a push to make switch of magnetic sensor, an optical sensor or a capacitance sensor. A work tool recognition system sensor may be provided.

IPC 8 full level

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CPC (source: EP GB US)

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