

Title (en)
Fork tooth for a load fork of an industrial truck

Title (de)
Gabelzinke für eine Lastgabel eines Flurförderzeugs

Title (fr)
Dent de fourche pour une fourche de charge d'un chariot de manutention

Publication
EP 2208704 A1 20100721 (DE)

Application
EP 10000089 A 20100108

Priority
DE 102009004742 A 20090115

Abstract (en)
The arm (10) has a distance sensor (22) arranged adjacent to a carrier arm (14) in a bore hole (20) of a fork face (12), and detecting presence of a load on the carrier arm. The sensor is connected with a communication unit at the fork surface for transmitting a sensor signal to an industrial truck. The sensor is connected with a control unit (28) that is attached to the fork surface. The control unit is connected with an antenna (38) at the fork surface or with the truck via a data line. A radio frequency identification antenna (34) is integrated in a front region of the carrier arm.

Abstract (de)
Gabelzinke (10) für eine Lastgabel eines Flurförderzeugs, die einen Gabelrücken (12) und einen Tragarm (14) aufweist, wobei in einer Bohrung (20) des Gabelrückens nahe dem Tragarm (14) ein Sensor (22) angeordnet ist, der die Anwesenheit einer Last auf den Tragarm verfasst, und der Sensor (22) mit einem Kommunikationsmittel am Gabelrücken (12) verbunden ist zur Übertragung eines Sensorsignals auf das Flurförderzeug.

IPC 8 full level
B66F 9/12 (2006.01); **B66F 9/075** (2006.01)

CPC (source: EP)
B66F 9/0755 (2013.01); **B66F 9/12** (2013.01)

Citation (search report)
• [A] US 2005200457 A1 20050915 - BRIDGELALL RAJ [US], et al
• [A] US 6150938 A 20001121 - SOWER FORREST D [US], et al
• [A] JP 2002321898 A 20021108 - NIPPON YUSOKI CO LTD
• [A] US 2007215412 A1 20070920 - FOSSIER DAVID A [US], et al
• [A] JP H0524798 A 19930202 - KOMATSU FORKLIFT
• [A] WO 2004103882 A1 20041202 - DAIMLER CHRYSLER AG [DE], et al
• [A] JP 2006062784 A 20060309 - SATAKE TEKKO KK
• [A] US 2007138287 A1 20070621 - LOMBARDI MICHAEL A [US]
• [A] JP 2002321899 A 20021108 - MATSUSHITA ELECTRIC IND CO LTD
• [A] US 2007233314 A1 20071004 - BAGINSKI RALF [DE], et al
• [A] DE 102006010290 A1 20070906 - JUNGHEINRICH AG [DE]

Cited by
DE102017200862A1; DE202010012941U1; DE102011118984A1; CN105731312A; DE102018110915A1; DE102017200862A8; US9932213B2; EP3567001A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

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