Title (en)

A SYSTEM FOR DAMPING OSCILLATIONS BETWEEN A TRACTOR AND AN AGRICULTURAL IMPLEMENT DURING TRANSPORT THEREOF

Title (de)

SYSTEM ZUR SCHWINGUNGSDÄMPFUNG ZWISCHEN EINEM ZUGFAHRZEUG UND EINEM LANDWIRTSCHAFTLICHEN ARBEITSGERÄT BEIM TRANSPORT DAVON

Title (fr)

SYSTÈME PERMETTANT D'AMORTIR LES OSCILLATIONS ENTRE UN TRACTEUR ET UNE MACHINE AGRICOLE PENDANT SON TRANSPORT

Publication

## EP 3389352 A1 20181024 (EN)

Application

## EP 16822887 A 20161216

Priority

- DK PA201500814 A 20151217
- DK 2016050438 W 20161216

Abstract (en)

[origin: WO2017101952A1] The invention relates to a coupling mechanism (100) for damping oscillations between a tractor (300) and an agricultural implement during transport thereof; said coupling mechanism comprising: a top link, said top link is having a front end (4) configured to be pivotally mounted on a rear end (6) of a tractor; and said top link is having an opposite rear end (8) configured to be pivotally mounted on three point linkage (10) of an agricultural implement; wherein said top link is comprising a hydraulic actuator (38), said hydraulic actuator is having a front end (40) and a rear end (42); said hydraulic actuator is being arranged between the front end and the rear end of said top link so as to allow altering the effective distance between the front end and the rear end of said top link; a first lift arm (12) and a second lift arm (14); said first lift arm and said second lift arm (12, 14) each having a front end (16) configured to be pivotally mounted on a rear side of a tractor and an opposite rear end (18) configured to be pivotally mounted on a three point linkage of an agricultural implement; said two rear ends of the first and second lift arm, at their points of mounting, are configured to share a common pivot axis (20); wherein said first and second lift arms (12,14) being adapted to be arranged below the top link (2); a transducer (44); said transducer being configured to sense the load exerted between the front end (40) and the rear end (42) of said hydraulic actuator; a hydraulic valve (46) comprising one or more outlets and being configured to respect hydraulic tuator; a hydraulic tuator in response to instructions (50) received by said hydraulic valve; a control unit (52) configured to receive a signal (54) provided by said transducer, and being configured to translate this signal into instructions (50) to be supplied to said hydraulic valve according to a predetermined protocol in order to suppress any oscillations encountered between a tractor and an agricultural implement dur

IPC 8 full level

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CPC (source: DK EP)

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Citation (search report)

See references of WO 2017101952A1

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