

Title (en)
Double-linked crane jib system.

Title (de)
Doppellenker-Krauslegersystem.

Title (fr)
Système de flèche à deux bras pour grue.

Publication
EP 0021171 A1 19810107 (DE)

Application
EP 80103130 A 19800604

Priority
DE 2923146 A 19790607

Abstract (en)
1. Double-linked crane jib system with a substantially horizontal load path, comprising a main link (112) acting as a compression member and pivotally mounted on a support (110) about a first horizontal pivot (114), a top link (116) pivotally mounted on the main link (112) about a second horizontal pivot (118), with a load arm (120) having a guide point (134) for guiding a hoisting cable within the suspension span, a retaining device (150, 152, 156) and further a retaining link (128) which at a fourth horizontal pivot (130) is connected to the support (110) and engages the retaining device (150, 152, 156) at a point of application (162) which varies in relation to the load arm (120) during the displacement of the jib radius, the retaining device (150, 152, 156) comprising a first retaining arm (150), which is articulately connected about a third horizontal pivot (126) to the retaining link (128) and at or near the second pivot (118) to the load arm (120), and a second retaining arm (152) which is connected to the load arm (120) in a manner precluding relative rotation and at a fifth horizontal pivot (164) to the retaining link (128) at or near the third pivot (162), characterized in that the retaining link comprises a tension link (128), in that the second retaining arm (152) is connected at the fifth horizontal pivot (164) via a tension coupling link (156) forming a part of the retaining device (150, 152, 156) to the tension link (128) via the third pivot, and in that, when the tension link (128) and the tension coupling link (156) reach an extended position, the first retaining arm (150) can be uncoupled from its connection to the tension link (128) - transition from a first displacement zone (138) to a second displacement zone (138') - and can be coupled to the tension link (128) when this extended position is no longer present - transition from the second displacement zone (138') into the first displacement zone (138) - the first retaining arm (150) being supported in the first displacement zone (138) by the second retaining arm (152) and the tension coupling link (156) being supported in relation to the load arm (120) in a manner precluding relative rotation.

Abstract (de)
Bei einem verstellbaren Krauslegersystem, umfassend einen Grundlenker (112), eine Zugstütze (128) und einen Kopflenker, bestehend aus einem Lastarm (120) und einem ersten Rückhaltearm (150), wird vorgeschlagen, daß an dem Lastarm (120), drehfest mit diesem verbunden, ein zweiter Rückhaltearm (152) angebracht ist, welcher über eine Zugkoppel (156) mit der Zugstütze (128) verbunden ist, und daß der erste Rückhaltearm (150) aus der Verbindung mit der Zugstütze (128) entkoppelbar ist. Dadurch wird erreicht, daß die Armlenke (134) eines Hubseils an dem Lastarm (120) von einer geringen minimalen Ausladung bis zu einer grossen maximalen Ausladung einen annähernd horizontalen Weg beschreibt.

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