

Title (en)
CRANE WITH AUTOMATIC ADJUSTABLE TIGHTENING MECHANISM

Title (de)
KRAN MIT AUTOMATISCHEM VERSTELLBAREM SPANNMECHANISMUS

Title (fr)
GRUE AVEC RÉGLAGE AUTOMATIQUE DU MÉCANISME DE SERRAGE

Publication
EP 3216742 A1 20170913 (EN)

Application
EP 17159998 A 20170309

Priority
US 201615065949 A 20160310

Abstract (en)
A hoisting crane (1) that comprises a male shaft (2), a female shaft (3), a locking shaft (4), a tightening spring (5), a hoisting arm (6), a diagonal supportive rod (20), a top shoe 81, a bottom shoe 82, a top bearing 91, and a bottom bearing 92. The crane is portable and collapsible and is equipped with an automatic adjusting tightening mechanism that fixes and secures the crane to the work room floor and ceiling using a spring and in a way that the greater the load on the crane, the more the pressure arm increases the tightening force that the crane applies to the work room floor and ceiling.

IPC 8 full level
B66C 23/20 (2006.01)

CPC (source: EP)
B66C 23/201 (2013.01)

Citation (search report)

- [I] JP S51139564 U 19761110
- [A] DE 1121294 B 19620104 - KARL GESPERS
- [A] US 2985430 A 19610523 - GORMAN GREENWOOD
- [A] DE 3707005 A1 19880915 - WEINER RUDOLF [DE]

Cited by
CN112479053A

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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