

Title (en)

Mast foldable in three elements with folding/unfolding device for tower crane

Title (de)

Turm, zusammenklappbar in drei Elemente, mit Vorrichtung zum Zusammenklappen/Aufklappen für einen Turmkran

Title (fr)

Mâture pliable en trois éléments avec dispositif de pliage/dépliage pour grue à tour

Publication

**EP 0888997 A1 19990107 (FR)**

Application

**EP 98420106 A 19980625**

Priority

FR 9708621 A 19970702

Abstract (en)

The tower crane foldable mast is made from three components (6,7,8). The lower component (6) is articulated by its base (4) on the crane rotating chassis (3). An intermediate folding component (7) of relatively small length, is articulated (9) at the top of the lower mast component. The upper mast component (8) is articulated at its base (10) on the intermediate component and carries at its top the crane jib (13). The folding/unfolding device comprises a shroud (23) articulated by one end (24) to the rotating chassis and by the other end (25) to the intermediate component. A tie-rod (30) is articulated by one end (31) to the intermediate component and by its other end (21) to a kingpost (19) carried by the jib.

Abstract (fr)

La mât (5) comprend un élément de mât inférieur (6), articulé sur le châssis tournant (3) de la grue, un élément de mât intermédiaire de pliage (7), et un élément de mât supérieur (8) portant la flèche (13) de la grue. Le dispositif de pliage/dépliage de cette mât (5) comprend : au moins un hauban (23) articulé au châssis tournant (3) et à l'élément de mât intermédiaire (7), un tirant (30) reliant l'élément intermédiaire (7) à un poinçon de flèche (19), des moyens moteurs, pouvant comprendre eux-mêmes un vérin (27) monté entre le châssis tournant (3) et l'élément de mât inférieur (6), et un emballage (34) situé au niveau de l'élément de mât intermédiaire (7). La grue est ainsi repliable pour son transport sur route. <IMAGE>

IPC 1-7

**B66C 23/34**

IPC 8 full level

**B66C 23/42** (2006.01); **B66C 23/34** (2006.01); **B66C 23/62** (2006.01)

CPC (source: EP)

**B66C 23/34** (2013.01); **B66C 23/348** (2013.01)

Citation (search report)

- [AD] FR 2682096 A1 19930409 - POTAIN SA [FR]
- [AD] FR 2436097 A1 19800411 - PINGON INT [ES]
- [AD] EP 0733583 A1 19960925 - POTAIN SA [FR]
- [AD] EP 0536060 A1 19930407 - POTAIN SA [FR]
- [AD] GB 2196605 A 19880505 - POTAIN SA

Cited by

CN109761153A; EP1048605A1; FR2792627A1; EP1364906A1; FR2839962A1; US2021261388A1; US11702324B2; EP1352870A1; FR2838415A1; US6991120B2; US6439408B1; US7093730B2

Designated contracting state (EPC)

BE DE ES IT

DOCDB simple family (publication)

**EP 0888997 A1 19990107; EP 0888997 B1 20030129**; DE 69811002 D1 20030306; DE 69811002 T2 20031016; ES 2190576 T3 20030801; FR 2765564 A1 19990108; FR 2765564 B1 19990827; JP 4212069 B2 20090121; JP H1171093 A 19990316; RU 2193007 C2 20021120

DOCDB simple family (application)

**EP 98420106 A 19980625**; DE 69811002 T 19980625; ES 98420106 T 19980625; FR 9708621 A 19970702; JP 18761898 A 19980702; RU 98112609 A 19980701