

Title (en)  
Gantry of construction machinery

Title (de)  
Gerüstbrücke für Baumaschinen

Title (fr)  
Portique de machine de construction

Publication  
**EP 2275378 A1 20110119 (EN)**

Application  
**EP 10169350 A 20100713**

Priority  
• JP 2009168175 A 20090716  
• JP 2009276916 A 20091204

Abstract (en)  
A gantry 4 is composed of front legs 22, upper rear legs 24 and lower rear legs 28. In a working condition, the lower rear legs 28 and the upper rear legs 24 extend along a vertical line and the front legs 22 tilt backward and upward. In a stowed condition, the lower rear legs 28 and the upper rear legs 24 are folded and the front legs 22 are laid down backward. To a connecting joint 33 where the front legs 22 and the upper rear legs 24 are connected, one end of the connecting rod 35 that secures the stowed condition is rotatably connected. On the other end of this connecting rod 35, a pin 41 is provided. On the upper rear legs 24, a lock mechanism which is capable of engaging with the pin 41 is provided. The lock mechanism 42 disengages the locked condition with the pin 41 in accordance with the movement of folding the lower rear legs 28 and the upper rear legs 24 in order to change the gantry from the working condition to the stowed condition. It is possible to prevent the lock member, the connecting rod and the upper rear legs from being damaged by forgetting disengaging the lock mechanism.

IPC 8 full level  
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CPC (source: EP)  
**B66C 23/36** (2013.01); **B66C 23/82** (2013.01)

Citation (applicant)  
JP 2000198672 A 20000718 - HITACHI CONSTRUCTION MACHINERY

Citation (search report)  
• [AD] JP 2000198672 A 20000718 - HITACHI CONSTRUCTION MACHINERY  
• [A] US 3335877 A 19670815 - MARIO PEZZINI  
• [A] US 3977530 A 19760831 - HELM PERCY R, et al

Cited by  
EP3943438A1; US11577943B2; EP2476642A1; US9132999B2; US10703614B2

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 SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2275378 A1 20110119**; CN 101955134 A 20110126; JP 2011037628 A 20110224; JP 4770978 B2 20110914

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**EP 10169350 A 20100713**; CN 201010231770 A 20100715; JP 2009276916 A 20091204