

Title (en)  
Horizontal platform lifting device.

Title (de)  
Hubeinrichtung für waagerechte Plattform.

Title (fr)  
Dispositif de levage pour plateforme horizontale.

Publication  
**EP 0279141 A2 19880824 (EN)**

Application  
**EP 87500072 A 19871028**

Priority  
ES 8603027 A 19861029

Abstract (en)  
Horizontal platform lifting device, including a parallel arranged driving shaft (1) superimposed on a lower horizontal support base (3), on both sides of which two similar side lifting units are arranged parallel and opposite each other, which are simultaneously driven by some driving means. Each one of the mentioned side lifting units includes two pairs of superimposed St Andrew's crosswise linked levers (4), of which the lower one has one of its lower ends (6) linked to a fixed point in the lower support base and the other lower end arranged slidingly over the actual base. The upper ends of the lower St Andrew's cross are linked to the lower ends of the upper cross and one of the upper ends of the upper cross is linked to a fixed point of the lower side of the lifting horizontal platform, while the other upper end of the upper cross is arranged slidingly over the mentioned lower side of the mentioned lifting platform. The mentioned driving means include a pulling cord coiling drum, a first cord returning shaft (12), a second returning shaft (13), and a free transversal bar (14) fitted at its ends with two wheels (15) which are supported on the internal edges of the respective angles formed by the pairs of linked levers (4) at the connection points (8) of the bar which forms the second returning shaft.

IPC 1-7  
**B66F 7/06**

IPC 8 full level  
**B66F 7/06** (2006.01)

CPC (source: EP)  
**B66F 7/0666** (2013.01)

Cited by  
DE4433508A1; CN106184315A; CN1106037C; DE102012006745B4; CN111394964A; CN100463845C; DE19620973A1; DE102012006745A1; WO2007115564A1; WO2020190533A1; US11679966B2; US12065340B2

Designated contracting state (EPC)  
AT BE CH DE FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0279141 A2 19880824; EP 0279141 A3 19880907; ES 2003925 A6 19881201**

DOCDB simple family (application)  
**EP 87500072 A 19871028; ES 8603027 A 19861029**