

Title (en)  
Implement lifting device for loader

Title (de)  
Hubwerk für Arbeitsgeräte an Ladefahrzeugen

Title (fr)  
Dispositif de levage d'outil pour chargeurs

Publication  
**EP 0563513 B1 19960619 (DE)**

Application  
**EP 93100512 A 19930115**

Priority  
DE 4211078 A 19920403

Abstract (en)  
[origin: EP0563513A1] A lifting device with Z-kinematics for implements on loaders has a lifting frame (2), a double-arm tipping lever (10) which is linked to the lifting frame (2) and is pivotable relative to the latter, two links (24), linked to the free end of the lifting frame, for fastening the implement, a tipping cylinder (18) arranged between the links (24) and the top lever arm (12) of the tipping lever (10), and a connecting rod (13) arranged between the bottom lever arm (11) of the tipping lever (10) and the vehicle frame. The tipping lever (10), the tipping cylinder (18) and the connecting rod (13) are dimensioned in such a way that the tipping lever (10), when the lifting device is lowered, is arranged at an acute angle (31) of less than 25 DEG to the lifting frame axis (2) in a position inclined towards the vehicle frame. By this arrangement of the tipping lever (10), the biting forces applied by the lifting device can be considerably increased for tipping up the implement in the bottom lifting-frame position and for dumping its contents in the top lifting-frame position. <IMAGE>

IPC 1-7  
**E02F 3/34**

IPC 8 full level  
**E02F 3/34** (2006.01)

CPC (source: EP)  
**E02F 3/3411** (2013.01)

Cited by  
FR2774405A1; EP1074664A3; GB2353270A; US6409459B1

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**EP 0563513 A1 19931006; EP 0563513 B1 19960619**; AT E139590 T1 19960715; DE 4211078 A1 19931007; DE 4211078 C2 19950524; DE 59302969 D1 19960725

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