Title (en)

Swing type excavator

Title (de)

Schwenkbagger

Title (fr)

Pelle du type pivotant

Publication

EP 0671511 B1 20000126 (EN)

Application

EP 95103250 A 19950307

Priority

- JP 3606294 A 19940307
- JP 3606394 A 19940307

Abstract (en)

[origin: EP0671511A2] In a swing type excavator, a swing post 13 is attached to an upper structure 11, which is able to turn within a width of an undercarriage 10, at a position forwardly and laterally of a cab 12. A front attachment 1, including a bucket 22, an arm 19, an upper boom 17, a lower boom 14 and a cross link 15, is mounted to the swing post 13. The cross link 15 intersects a line connecting a coupling point between the upper boom 17 and the lower boom 14 and a coupling point between the lower boom 14 and the swing post 13, and changes an opening angle between the upper boom 17 and the lower boom 14 depending on a vertical tilt angle of the lower boom 14. With this arrangement, the upper structure including the front attachment can be turned within the undercarriage width by a simple construction with no need of using a complex link mechanism, and interference between the front attachment and the cab can be easily avoided when the front attachment is swung. Also, a horizontal pin 31 as the coupling point between boom 14 and the swing post 13 is positioned rearwardly of a swing pin 30 as the swing center of the swing post 13 away from the front attachment. With this arrangement, the so-called ultra-small or undercarriage-width turn is realized without reducing both the side ditch distance in a side ditch digging condition and the maximum digging depth in a deep digging posture. <IMAGE>

IPC 1-7

E02F 3/30; E02F 3/32; E02F 3/38

IPC 8 full level

E02F 3/30 (2006.01); **E02F 3/32** (2006.01); **E02F 3/38** (2006.01); **E02F 9/20** (2006.01); E02F 3/34 (2006.01); E02F 3/42 (2006.01)

CPC (source: EP)

E02F 3/301 (2013.01); **E02F 3/302** (2013.01); **E02F 3/32** (2013.01); **E02F 3/325** (2013.01); **E02F 3/384** (2013.01); **E02F 9/2033** (2013.01); E02F 3/307 (2013.01)

Cited by

EP0818582A4; EP0919670A4; CN102720231A; CN106759575A; NL2024981B1; WO2021172984A1; WO2021137789A1

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