

Title (en)

EXTENSIBLE WEIGHT BALANCING DEVICE FOR A TOOL, PARTICULARLY AN ASSEMBLING TOOL

Publication

**EP 0009814 B1 19811028 (DE)**

Application

**EP 79103795 A 19791004**

Priority

DE 2843727 A 19781006

Abstract (en)

[origin: US4274495A] A tool balancing apparatus comprises a spring arrangement for balancing the weight of a tool such as an assembly tool. The spring arrangement is a hydro-pneumatic piston-cylinder unit whose one end is connected to a suitable mounting means and whose other end, being extensible, carries the tool. The apparatus further includes a bracing means such as a tube or a torsion bar assembly to form a rigid connection between the tool and the mounting means, thereby to carry any forces produced by the tool during operation thereof and to transmit such forces to the mounting means.

IPC 1-7

**B25H 1/00**; **F16F 9/06**

IPC 8 full level

**B25H 1/00** (2006.01); **F16F 9/06** (2006.01)

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Cited by

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**EP 0009814 A2 19800416**; **EP 0009814 A3 19800430**; **EP 0009814 B1 19811028**; AT E395 T1 19811115; DE 2843727 A1 19800410; DE 2843727 C2 19860206; US 4274495 A 19810623

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