

Title (en)

Lifting device for an operating station in a packaging machine

Title (de)

Hubeinrichtung für eine Arbeitsstation einer Verpackungsmaschine

Title (fr)

Dispositif de levage pour une station d'opération d'une machine d'emballage

Publication

**EP 0895933 B1 20030416 (DE)**

Application

**EP 97113794 A 19970808**

Priority

EP 97113794 A 19970808

Abstract (en)

[origin: EP0895933A1] The workstation, at a packaging machine, has a lifting mechanism to close the tools together, and a further lifting system to give an additional and final closing movement. The additional lifting system has a drive (23) and a mechanical reduction system (55,80,90,61), with a constant force development. The further closing movement action is triggered on meeting a resistance.

IPC 1-7

**B65B 31/02; B65B 65/02**

IPC 8 full level

**B65B 31/02** (2006.01); **B65B 59/00** (2006.01); **B65B 65/02** (2006.01)

CPC (source: EP US)

**B65B 31/021** (2013.01 - EP US); **B65B 65/02** (2013.01 - EP US)

Citation (examination)

DE 4436407 A1 19960418 - DIXIE UNION VERPACKUNGEN GMBH [DE]

Cited by

EP2241508A3; DE102009008452B3; CN108688901A; DE10351567B4; EP2522581A1; EP2522580A1; EP3130546A1; EP3838769A1; DE102019219833A1; US11713152B2; US9567124B2; WO2023117860A2; US9248929B2; WO2016180587A1; WO2007090652A1; WO2005042349A1; US10807752B2; EP2218575A1; EP4019415A1; DE102020134816A1; EP3294636B1

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