

Title (en)

Suction head with lifting suckers.

Title (de)

Saugkopf mit Hubsaugern.

Title (fr)

Tête aspirante avec ventouses de levage.

Publication

EP 0284806 B1 19940216 (DE)

Application

EP 88103224 A 19880303

Priority

DE 3710994 A 19870401

Abstract (en)

[origin: US4869489A] Suction head includes a vertically adjustable lifting suction device having a respective guiding element, and an axially displaceable, telescopically guided suction chamber arranged on the guiding element, the suction chamber having at least two suction nozzles disposed adjacent one another transversely to a direction in which sheets are conveyed, the suction nozzles being united into a double suction chamber so as to form a narrowly defined vacuum chamber.

IPC 1-7

B65H 3/08

IPC 8 full level

B25J 15/06 (2006.01); **B65H 3/08** (2006.01)

CPC (source: EP US)

B65H 3/0816 (2013.01 - EP US)

Cited by

CN105538333A; GB2238998A; US5137267A; GB2238998B

Designated contracting state (EPC)

CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0284806 A2 19881005; EP 0284806 A3 19900808; EP 0284806 B1 19940216; AU 1267288 A 19881006; CA 1310344 C 19921117; CN 1016768 B 19920527; CN 88101578 A 19881012; DE 3710994 A1 19881013; DE 3710994 C2 19890420; DE 3887767 D1 19940324; JP S63267630 A 19881104; US 4869489 A 19890926

DOCDB simple family (application)

EP 88103224 A 19880303; AU 1267288 A 19880307; CA 559402 A 19880219; CN 88101578 A 19880328; DE 3710994 A 19870401; DE 3887767 T 19880303; JP 7832888 A 19880401; US 17670988 A 19880401