

Title (en)

LIFTING DEVICE, ESPECIALLY FOR A DENTAL CHAIR

Publication

EP 0100490 A3 19841227 (DE)

Application

EP 83107114 A 19830720

Priority

DE 3228834 A 19820802

Abstract (en)

[origin: US4533106A] A lifting device, particularly for a dentist chair incorporating support arms arranged in a scissor form between a base portion and a seat support portion which is height adjustable relative thereto. The scissor action support mechanism comprises two support arms arranged in a single scissor's pair to realize an extremely compact yet rugged design. Each support arm includes two arm parts - a shorter arm and a longer arm - which are joined at one of their ends by a lateral stiffening section. The two support arms are arranged to face each other and are joined by an axle bearing which ties the two shorter arm parts to each other thus creating the scissor lifting structure. The free ends of the longer arms are mounted on lower and upper horizontal guides. A spindle driver applying forces at or near the axle bearing is used for lowering or raising the seat. The scissor arms are fully collapsible and because of the double arm construction a rugged, tension-stiff assembly results.

IPC 1-7

A61G 15/00

IPC 8 full level

A61G 15/14 (2006.01); **A47C 3/36** (2006.01); **A61C 19/00** (2006.01); **A61G 15/00** (2006.01); **A61G 15/02** (2006.01); **B66F 7/06** (2006.01)

CPC (source: EP US)

A61G 15/02 (2013.01 - EP US); **B66F 7/0608** (2013.01 - EP US); **B66F 7/065** (2013.01 - EP US)

Citation (search report)

- [AD] US 3522925 A 19700804 - BUCHTEL DEAN H
- [A] DE 2837471 A1 19790315 - MORITA MFG
- [A] GB 2024616 A 19800116 - MACHLETT LAB INC
- [A] US 3804460 A 19740416 - LEFFLER D

Cited by

EP0373245A1; US5015035A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0100490 A2 19840215; EP 0100490 A3 19841227; EP 0100490 B1 19861029; DE 3228834 A1 19840202; DE 3367161 D1 19861204; JP H0567559 B2 19930927; JP S5948395 A 19840319; US 4533106 A 19850806

DOCDB simple family (application)

EP 83107114 A 19830720; DE 3228834 A 19820802; DE 3367161 T 19830720; JP 13865183 A 19830728; US 51621283 A 19830722