

Title (en)  
REVERSIBLE HEADREST TILT, LUMBAR MECHANISM

Title (de)  
UMKEHRBARE KOPFSTÜTZENNEIGUNG, LENDENMECHANISMUS

Title (fr)  
D'INCLINAISON D'APPUIE-TÊTE RÉVERSIBLE, MÉCANISME LOMBAIRE

Publication  
**EP 3326492 A1 20180530 (EN)**

Application  
**EP 17187070 A 20170821**

Priority  
US 201615251242 A 20160830

Abstract (en)  
A reversible adjustable lumbar support and headrest tilt mechanism (10) is provided for installation on a chair. A side bracket (86) is coupled to each side of the back frame (12; 100), and a back bracket (16; 74) is pivotably coupled to each side bracket. An actuator (40; 40A; 64; 110) is pivotably coupled to the back frame (12; 100) that has an extendable and retractable shaft (38; 68). In a first orientation, with the actuator shaft (38; 68) extending toward the upper end of the back frame (12; 100), a headrest back insert (30; 78) is couple-able to and between the back brackets (16; 74), such that extension and retraction of the actuator shaft (38; 68) rotates the headrest back insert (30; 78). In a second orientation, with the actuator shaft (38; 68) extending toward the lower end of the back frame (12; 100), a lumbar push bar (200) is couple-able to and between the back brackets (16; 74), such that extension and retraction of the actuator shaft (38; 68) rotates the lumbar push bar (200).

IPC 8 full level  
**A47C 1/036** (2006.01); **A47C 7/38** (2006.01); **A47C 7/46** (2006.01)

CPC (source: CN EP)  
**A47C 1/036** (2013.01 - CN); **A47C 7/38** (2013.01 - CN EP); **A47C 7/46** (2013.01 - EP); **A47C 7/462** (2013.01 - CN)

Citation (search report)

- [X] US 2005035637 A1 20050217 - MCMILLEN ROBERT JAMES [CA]
- [X] JP H04102409 A 19920403 - KOITO KOGYO KK
- [A] EP 2039270 A1 20090325 - CIAR SPA [IT]

Cited by  
CN113015464A; WO2019234719A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3326492 A1 20180530**; CN 107788737 A 20180313; CN 107788737 B 20211119

DOCDB simple family (application)  
**EP 17187070 A 20170821**; CN 201710755047 A 20170829