

Title (en)

Biased spring, particularly for synchronised mechanisms in office chairs

Title (de)

Vorgespannte Federanordnung, insbesondere zur Federbeaufschlagung von Synchronmechaniken von Bürostühlen

Title (fr)

Ressort précontraint, notamment pour mécanismes synchronisé dans chaises de bureau

Publication

**EP 1258208 A3 20040128 (DE)**

Application

**EP 02009188 A 20020425**

Priority

DE 10126001 A 20010518

Abstract (en)

[origin: EP1258208A2] The coaxially mounted springs (28) have an adjuster leg (31) and a supporting leg (29), using a hand operated cam system (32) to couple the adjuster legs (31). The spring force (F) is adjusted in steps, obtained by adjoining cams (40,41) whose faces (42) are related to the cam twist angle first by flat sectors (43,47,50), eccentric sectors (44,48,51) and finally by holding sectors (45,49,52) coaxial with the cam system (9). The two sets of sectors per cam (40,22) should be offset in the rotating sense of the cam. The control sectors (44,48,51) are formed by flat extensions of the sectors (43,47,50), co-planar with the sectors (43,47,50) in the cam lift direction.

IPC 1-7

**A47C 1/024**; **A47C 1/032**

IPC 8 full level

**A47C 1/032** (2006.01)

CPC (source: EP US)

**A47C 1/03255** (2013.01 - EP US); **A47C 1/03266** (2013.01 - EP US); **A47C 1/03272** (2013.01 - US); **A47C 1/03274** (2018.07 - EP US); **A47C 1/03277** (2013.01 - US); **A47C 1/03294** (2013.01 - EP US)

Citation (search report)

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- [A] US 4575150 A 19860311 - SMITH DAVID W [CA]
- [A] US 6059363 A 20000509 - ROSLUND JR RICHARD N [US], et al

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EP1985206A4; US2018289159A1; US10610019B2; WO2012048863A1; WO2016124317A1; WO2009127862A1

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**EP 1258208 A2 20021120**; **EP 1258208 A3 20040128**; **EP 1258208 B1 20060322**; AT E320736 T1 20060415; DE 10126001 A1 20021121; DE 50206108 D1 20060511; US 2002171277 A1 20021121; US 6709056 B2 20040323

DOCDB simple family (application)

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