

Title (en)
SAFETY LOCKING DEVICE

Publication
EP 0262359 A3 19880608 (DE)

Application
EP 87111716 A 19870813

Priority
DE 3629882 A 19860902

Abstract (en)
[origin: US4943115A] A chair wherein the support at the upper end of the leg has a rigidly mounted carrier for the front portion of the seat and a carrier for the back rest. The carrier for the back rest is connected to the carrier for the seat by a coupling which allows angular and translatory movements of the carrier for the back rest. A detent mechanism is provided to hold the back rest in any one of several different positions of inclination with reference to the seat. One element of the detent mechanism is a toothed rack on a slide which is connected with the carrier for the back rest and is reciprocable in a slot of the carrier for the seat. Another element of the detent mechanism is a lever which has one or more teeth movable into and from mesh with the teeth of the rack by a mechanism which can pivot the lever against the opposition of a torsion spring. The spring or springs which permanently tend to pivot the back rest forwardly prevent the torsion spring from disengaging the teeth of the lever from the teeth of the rack; to this end, the flanks of teeth on the rack are configured in such a way that the spring or springs for the back rest maintain the flanks in pronounced frictional engagement with the teeth of the lever, and such frictional engagement can be overcome by the torsion spring when the occupant of the seat leans against the back rest so as to reduce the bias of the spring or springs for the back rest upon the tooth flanks.

IPC 1-7
A47C 1/032; **A47C 3/026**

IPC 8 full level
A47C 1/032 (2006.01); **A47C 3/026** (2006.01)

CPC (source: EP US)
A47C 1/03238 (2013.01 - EP US); **A47C 1/03255** (2013.01 - EP US)

Citation (search report)
• [A] US 2363935 A 19441128 - BOERNER ARTHUR R
• [A] CH 659179 A5 19870115 - PROVENDA MARKETING AG
• [A] DE 3303265 A1 19840802 - ROEDER SOEHNE SITZMOEBELFAB [DE]

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EP0960586A3

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
US 4943115 A 19900724; AT E55681 T1 19900915; DE 3629882 A1 19880310; DE 3629882 C2 19901129; DE 3764439 D1 19900927; EP 0262359 A2 19880406; EP 0262359 A3 19880608; EP 0262359 B1 19900822

DOCDB simple family (application)
US 40147189 A 19890829; AT 87111716 T 19870813; DE 3629882 A 19860902; DE 3764439 T 19870813; EP 87111716 A 19870813