

Title (en)

SINGLE GEAR TYPE GUIDE MECHANISM FOR DRAWER DRAWING

Title (de)

EINZELRADFÜHRUNGSMECHANISMUS FÜR SCHUBLADENAUSZUG

Title (fr)

MÉCANISME DE GUIDAGE DE TYPE À ENGRENAGE UNIQUE POUR TIRER UN TIROIR

Publication

EP 4088618 A1 20221116 (EN)

Application

EP 20914095 A 20200605

Priority

- CN 202010054019 A 20200117
- CN 2020094617 W 20200605

Abstract (en)

A single gear type guide mechanism for drawer drawing, comprising a fixed rail assembly (1), a movable rail assembly (2), and a middle rail assembly (4). The fixed rail assembly (1) and the middle rail assembly (4) are fitted in interlayers. The interlayers in which the middle rail assembly (4) and the movable rail assembly (2) are fitted are provided with sliding assemblies. A movable rail rack (20) is fixed on the movable rail assembly (2). A synchronous gear (40) is rotatably fixed on the middle rail assembly (4). One end of the synchronous gear (40) is engageably connected to the tooth wall of the movable rail rack (20), and the other end of the synchronous gear (40) is engageably connected to a fixed rail rack (10). The fixed rail rack (10) is fixed on the fixed rail assembly (1). The fixed rail rack (10) and the movable rail rack (20) are parallel to each other and disposed along the sliding direction of the movable rail assembly (2) and the middle rail assembly (4). Multiple guide rails are connected by means of gear engagement, so as to implement smooth linkage, reduce the noise during opening or closing by means of slide rails, and make the force applied during the entire opening or closing process uniform, thereby providing better use experience.

IPC 8 full level

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CPC (source: CN EP)

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Designated contracting state (EPC)

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