

Title (en)
Spring pusher

Title (de)
Federangetriebene Schubvorrichtung

Title (fr)
Poussoir à ressort

Publication
EP 1864597 B1 20090415 (EN)

Application
EP 06425392 A 20060609

Priority
EP 06425392 A 20060609

Abstract (en)
[origin: EP1864597A1] A spring pusher for packages queued over a shelf with front stopper much simpler to be used and with a greatly enhanced tolerance to hurried and/or careless use, always ensuring a secure end of travel retention and an outstandingly easy and reliable release once the new packages have been properly arranged in the relative sector or division of the shelf. The device has a guide (1) along which a slider (2) may run recalled by spring (3) toward a rest position at the front edge of the guide. A novel arrangement of retention of the slider (2) in its rearmost travel position along the guide comprises a pin feeler (5) sustained by an arm (4) capable of elastically flexing sideways. The feeler, after sliding along the outer flank of at least an upright protrusion (6) of the guide (1), near the rearmost end of travel of the slider, engages itself into a catching loop of the protrusion. In plan view, the protrusion (6) has the shape of a two branch fork slanted at an angle in respect to a longitudinal axis of the guide, defining a semicircular catch between the two branches of the fork and has an "inlet" branch, over the outer flank surface of which slides the pin feeler (5) upon pushing toward the rearmost end of travel the slider (2) to block it, that is shorter than the "outlet" branch, on the inner flank surface of which slides the feeler (5) when releasing it.

IPC 8 full level
A47F 1/12 (2006.01)

CPC (source: EP)
A47F 1/126 (2013.01)

Cited by
CN103429123A; US9713393B2; US11259652B2; WO2012127849A1; US9635957B2; US10226137B2; US9820585B2; US11344138B2; US11583109B2; US9820584B2; US10278516B2; US10702075B2; US9930973B2; US11166571B2; US11583106B2; US10952546B2; US10959542B2; US11452386B2; US11484131B2; US9895007B2; US10555624B2; US10568438B2; US11490743B2; US9730531B2; US10045640B2; US10165871B2; US10702079B2; US11076707B2; US9254049B2; US9955802B2; US10588426B2; US11122915B2; US11690463B2; JP2014532515A; US11517127B2; US11583107B2; US11963625B2; US9750354B2; US9918565B2; US9968206B2; US10206520B2; US10285510B2; US10631666B2; US10905258B2; US10966546B2; US11058232B2; US11464346B2; US11517126B2

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