

Title (en)

Adjustable fitting device for shovel implements for collecting and removing material

Title (de)

Einstellbare Befestigungsvorrichtung für Schaufeleinsätze zum Aufsammeln und Entfernen von gedrehtem Material

Title (fr)

Dispositif d'adaptation réglable pour accessoires de pelle pour la collecte et le retrait de matériaux

Publication

EP 2343414 A3 20130925 (EN)

Application

EP 11150504 A 20110110

Priority

IT MI20100001 U 20100112

Abstract (en)

[origin: EP2343414A2] An adjustable fitting device for a turned material collecting and removing shovel implements comprises a fixed body, associated with a shovel or blade, and a movable body, associated with a support rod or handle, the movable body being associated to the fixed body by adjustable locking means allowing the movable body to be locked at discrete position with respect to the fixed body to change an angle between the shovel and support therefor with respect to a horizontal plane, the adjustable locking means comprising a deformable plate operating as a push-button element to unlock or disengage the movable body and change the handle angle with respect to the shovel.

IPC 8 full level

E01H 5/02 (2006.01); **A01B 1/02** (2006.01); **E01H 5/06** (2006.01)

CPC (source: EP)

E01H 5/02 (2013.01); **E01H 5/065** (2013.01)

Citation (search report)

- [X] DE 8712329 U1 19871022
- [X] CA 2545744 A1 20061103 - PLANTE REYNALD [CA]
- [X] DE 202007001095 U1 20070419 - BUEHLER KARL HEINZ [DE]

Cited by

CN112238421A; CN114657928A; GB2519763A; US11326315B2; GB2512264B; CN113293728A

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 2343414 A2 20110713; EP 2343414 A3 20130925; IT MI20100001 U1 20110713

DOCDB simple family (application)

EP 11150504 A 20110110; IT MI20100001 U 20100112