

Title (en)

IMPROVED SLIDING PLATES FOR A LOG SPLITTER AND A LOG SPLITTER WITH SAID SLIDING PLATES

Title (de)

VERBESSERTE GLEITPLATTEN FÜR EINEN HOLZSPALTER UND HOLZSPALTER MIT DIESEN GLEITPLATTEN

Title (fr)

PLAQUES DIRECTRICES AMÉLIORÉES POUR FENDEUSE DE BUCHES ET FENDEUSE DE BUCHES COMPORTANT LESDITES PLAQUES DIRECTRICES

Publication

EP 3597727 A1 20200122 (EN)

Application

EP 19185953 A 20190712

Priority

SI 201800161 A 20180720

Abstract (en)

The present invention belongs to the field of forestry and wood processing, more precisely to the field of devices for splitting logs having special sliding plates for guides, along which the base plate of the axe slides. The present invention relates to improved sliding plates for a log splitter and a log splitter with said sliding plates. The essence of the invention is in that the sliding plates are made of a combination of base material and from 0.5 to 80 % (w/w) of graphite or graphene, which improves the sliding characteristics of the plates. The base material may be brass, different plastic materials or any other suitable material. Sliding plates may be produced by adding graphite to the base material during manufacturing of the plates or graphite is included in the form of graphite inserts or layers to the already made plates. Alternatively, the graphite may be added to the base plate of the axe or the guides of the log splitter. Thus, the invention eliminates the need for lubrication of guides in a log splitter.

IPC 8 full level

C10M 103/02 (2006.01); **B27L 7/06** (2006.01)

CPC (source: EP)

B27L 7/00 (2013.01); **B27L 7/06** (2013.01); **C10M 103/02** (2013.01); **C10M 2201/0413** (2013.01); **C10N 2030/06** (2013.01); **C10N 2040/00** (2013.01); **C10N 2050/023** (2020.05); **C10N 2050/08** (2013.01); **C10N 2050/14** (2020.05)

Citation (applicant)

- SI 25042 A 20170228 - PIŠEK - VITLI KRPAN D O O [SI]
- US 2014124097 A1 20140508 - BANJO DANIEL [US]

Citation (search report)

- [XY] EP 3332931 A1 20180613 - TOBIAS DUERDOTH [DE]
- [Y] US 4782870 A 19881108 - DUERR DENNIS [US]
- [A] US 2011079323 A1 20110407 - GREEN KEVIN J [US]
- [Y] DE 102012215666 A1 20140306 - SCHAEFFLER TECHNOLOGIES AG [DE]
- [A] EP 0469906 A1 19920205 - OILES INDUSTRY CO LTD [JP]

Cited by

CN111975901A; EP3789168A1; EP4205929A1

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 3597727 A1 20200122; SI 25674 A 20200131

DOCDB simple family (application)

EP 19185953 A 20190712; SI 201800161 A 20180720