

Title (en)
BAST CROPS PROCESSING LINE

Title (de)
VERARBEITUNGSLINIE FÜR BASTPFLANZEN

Title (fr)
LIGNE DE TRAITEMENT DE RÉCOLTES LIBÉRIENNES

Publication
EP 3658704 A4 20210414 (EN)

Application
EP 18837664 A 20180425

Priority
• UA A201707867 A 20170727
• UA 2018000040 W 20180425

Abstract (en)
[origin: WO2019022692A1] The invention relates to an apparatus for primary processing of bast-fiber crops and can be used to obtain the same type straw fibers and shives or flax and hemp fibers. The bast crops processing line consists of the sequentially installed recoiling machine (1), dividing and scutching machine (3), breaking machine (4), the machine for scutching raw fibers without pressing (5), tow shaker (7) and shive-fiber waste transportation system (8), while the latter is fitted with a crushing device (9). The dividing and scutching machine (3) makes it possible to form a layer of raw material (10) with a definite and optimal density for processing, to card and separate shives from fibers. The machine for scutching raw fibers without pressing (5) provides an intensive separation of shives from fibers, considerably facilitating further separation of free shives in the tow shaker (7). The crushing device (9) improves reliability of the shive-fiber waste transportation system (8).

IPC 8 full level
D01B 1/38 (2006.01); **D01B 1/14** (2006.01); **D01B 1/40** (2006.01); **D01B 9/00** (2006.01)

CPC (source: EP US)
D01B 1/14 (2013.01 - EP); **D01B 1/38** (2013.01 - EP US); **D01B 1/40** (2013.01 - EP US); **D01B 9/00** (2013.01 - EP US)

Citation (search report)
• [Y] EP 0398421 A1 19901122 - INST VOOR BEWARING [NL]
• [Y] US 6357083 B1 20020319 - STRATTON MARK A [CA], et al
• [A] DE 3923498 A1 19910117 - BAHMER JAKOB [DE], et al
• See references of WO 2019022692A1

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

DOCDB simple family (publication)
WO 2019022692 A1 20190131; EP 3658704 A1 20200603; EP 3658704 A4 20210414; UA 118145 C2 20181126; US 2020270768 A1 20200827

DOCDB simple family (application)
UA 2018000040 W 20180425; EP 18837664 A 20180425; UA A201707867 A 20170727; US 201816642255 A 20180425