

Title (en)
CUTTING APPARATUS OF TOBACCO INDUSTRY, AND METHOD FOR DETECTING DAMAGE TO CUTTING KNIFE IN TOBACCO INDUSTRY

Title (de)
SCHNEIDVORRICHTUNG DER TABAKINDUSTRIE UND VERFAHREN ZUR ERKENNUNG VON BESCHÄDIGUNGEN AM SCHNEIDMESSER IN DER TABAKINDUSTRIE

Title (fr)
APPAREIL DE COUPE DE L'INDUSTRIE DU TABAC ET PROCÉDÉ DE DÉTECTION DE DOMMAGES DE COUTEAU DE COUPE DANS L'INDUSTRIE DU TABAC

Publication
EP 3354142 B1 20191127 (EN)

Application
EP 18153598 A 20180126

Priority
PL 42033517 A 20170127

Abstract (en)
[origin: EP3354142A1] The object of the application is a cutting apparatus (1) of the tobacco industry comprising: a bearing frame; a rotary cutting head (4) provided with cutting knives (6) situated on the circumference of the rotary cutting head (4), with the cutting knives (6) being situated principally parallel to the axis of rotation (X) of the rotary cutting head (4); a feeding conveyor (3a, 3b) adapted to feed a material (9) to be cut to the rotary cutting head (4); and a bed knife unit (5) situated between the conveyor (3a, 3b) and the rotary cutting head (4); characterised in that the cutting apparatus (1) further has a cutting apparatus (1) mechanical vibration monitoring system (15) comprising at least one vibration sensor (10), the monitoring system (15) being built and adapted in such a way that it is possible to detect vibration induced by the contact between the cutting knife (6) of the rotary cutting head (4) and the foreign body (8) being in the material (9) to be cut, whereas the monitoring system (15) also comprises a signal analyzer (20) and is connected with the cutting apparatus control system (1).

IPC 8 full level
A24B 7/12 (2006.01)

CPC (source: EP)
A24B 7/12 (2013.01)

Cited by
EP4289292A1

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)
EP 3354142 A1 20180801; EP 3354142 B1 20191127; PL 234277 B1 20200131; PL 420335 A1 20180730

DOCDB simple family (application)
EP 18153598 A 20180126; PL 42033517 A 20170127