

Title (en)
Ring spinning spindle with yarn cutting device

Title (de)
Ringspinnspindel mit einem Trennmesser

Title (fr)
Broche de filature à anneaux avec dispositif pour la coupe du fil

Publication
EP 0911434 B1 20030409 (DE)

Application
EP 98119832 A 19981020

Priority
DE 19746536 A 19971022

Abstract (en)
[origin: EP0911434A2] The yarn cutter (15) is a single cylindrical or slightly conical flat pot-shaped component. Its edge has projecting cam tooth structures (18') with blunt edges and set-back cutters (17') with sharp edges. In an Independent claim the cutter is deep-drawn from a plate, with material cutting to form the sharp edges. It may be sintered from powder metal, or it may be die cast or injection molded, followed by edge sharpening and plating. Preferred Features:- The cutter (15) is a drawn metal plate component, with an outer edge worked to give distributed cutting tooth sections aligned towards the ring spinner spindle, to form cam structures. The outer edge of the cutter can be shaped into overlapping tabs giving alternating cutting edges (17') and projecting cam structures (18'), with the tabs for the cams aligned towards the spindle. The cams can be formed by bending back the tongue tabs. A gap is between the cams and the cutters. The cams (18') are angled against the spindle axis, so that the free ends point away from the spindle axis. The cutter can be structured so that projecting corrugations (24) act as the cam structures and the valleys are the cutters.

IPC 1-7
D01H 9/16

IPC 8 full level
D01H 7/04 (2006.01); **D01H 9/16** (2006.01)

CPC (source: EP US)
D01H 9/16 (2013.01 - EP US)

Cited by
CN103114357A; CN102102250A; AT515349A1; AT515349B1; WO2017072619A1

Designated contracting state (EPC)
CH DE IT LI

DOCDB simple family (publication)
EP 0911434 A2 19990428; EP 0911434 A3 20000719; EP 0911434 B1 20030409; DE 19746536 A1 19990429; DE 19746536 C2 20020801; DE 59807834 D1 20030515; JP H11189936 A 19990713; US 6042045 A 20000328

DOCDB simple family (application)
EP 98119832 A 19981020; DE 19746536 A 19971022; DE 59807834 T 19981020; JP 29873998 A 19981020; US 17616598 A 19981021