Title (en)
   CUTTING DEVICE

Title (de)
   SCHNEIDVORRICHTUNG

Title (fr)
   DISPOSITIF DE COUPE

Publication
   EP 2411152 B1 20130717 (DE)

Application
   EP 10711050 A 20100324

Priority
   • EP 2010053800 W 20100324
   • DE 202009003995 U 20090325

Abstract (en)
   [origin: WO2010108932A1] The invention relates to a cutting device for chopping flowable mixtures of liquids and solids, with a blade-carrying rotor (100) which is mounted rotatably relative to a cutting wire (200) and bears axially in the direction of the axis of rotation (140) thereof against the cutting wire and is prestressed axially against the cutting wire in a first prestressing direction (630). According to the invention, at least one clearance (400) which is delimited by at least a first and second surface is provided, wherein the first surface (410) is arranged nondisplaceably in the axial direction with respect to the blade-carrying rotor, the second surface (420) is arranged nondisplaceably in the axial direction with respect to the cutting wire, the first and the second surface are arranged nonrotatably with respect to each other about the axis of rotation of the blade-carrying rotor, at least one freewheeling body (431, 432) is arranged in the at least one clearance and is prestressed axially in a second prestressing direction so as to bear against the first and second surface, and the first and the second surface are designed at least in sections in such a manner that the radial distance between the first and second surface tapers in the direction of the second prestressing device (450), as a result of which an axial relative movement between the blade-carrying rotor and the cutting wire counter to the first prestressing direction is prevented.

IPC 8 full level
   B02C 18/00 (2006.01); **B02C 18/18** (2006.01)

CPC (source: EP US)
   B02C 18/0092 (2013.01 - EP US); **B02C 18/18** (2013.01 - EP US)

Designated contracting state (EPC)
   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 SE SI SK SM TR

DOCDB simple family (publication)
   DE 202009003995 U1 20100819; BR PI1009836 A2 20160315; CN 102438754 A 20120502; CN 102438754 B 20141022;
   EP 2411152 A1 20120201; EP 2411152 B1 20130717; HK 1161995 A1 20120817; JP 2012521285 A 20120913; US 2012091243 A1 20120419;
   US 8789778 B2 20140729; WO 2010108932 A1 20100930

DOCDB simple family (application)
   DE 202009003995 U 20090325; BR PI1009836 A 20100324; CN 201080020461 A 20100324; EP 10711050 A 20100324;
   EP 2010053800 W 20100324; HK 12102565 A 20120314; JP 2012501287 A 20100324; US 201013260385 A 20100324