

Title (en)
Device for comminuting biological samples

Title (de)
Vorrichtung zum Zerkleinern von biologischem Probematerial

Title (fr)
Dispositif pour broyer des échantillons biologiques

Publication
EP 1764154 B1 20080213 (DE)

Application
EP 05020207 A 20050916

Priority
EP 05020207 A 20050916

Abstract (en)
[origin: WO2007033748A1] An apparatus for cutting up biological sample material, comprising a sample container, a rotary drive device separate from the sample container, and a shaft rotatably arranged in the sample container, wherein the shaft has a laterally projecting cutting device in the region of a working end and has a coupling piece in the region of a coupling end, said coupling piece being accessible from outside and being designed for coupling engagement with a coupling counterpart of the rotary drive device, is characterized in that the shaft (14) is arranged with lateral guidance and in an axially displaceable manner in the sample container (10), the coupling piece (19) and the coupling counterpart (21) are designed for producing coupling engagement which is positive-locking in the direction of rotation (23) and permits an axial displacement, and the cutting device (16) is designed in a propeller shape in such a way that, during rotation of the shaft (14) in the working direction, it exerts a propulsive force on the latter in the direction of the coupling end (18).

IPC 8 full level
B02C 18/10 (2006.01); **B02C 18/24** (2006.01)

CPC (source: EP US)
B02C 18/10 (2013.01 - EP US); **B02C 18/24** (2013.01 - EP US)

Cited by
CN102438754A; CN107185665A; US9700857B1; US10118141B2; US10850243B2; US11944945B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007033748 A1 20070329; AT E385853 T1 20080315; AU 2006294111 A1 20070329; AU 2006294111 B2 20100805; CA 2622138 A1 20070329; CA 2622138 C 20131217; CN 101247891 A 20080820; CN 101247891 B 20100519; DE 502005002844 D1 20080327; EP 1764154 A1 20070321; EP 1764154 B1 20080213; ES 2299933 T3 20080601; US 2008208234 A1 20080828; US 7980500 B2 20110719

DOCDB simple family (application)
EP 2006008329 W 20060825; AT 05020207 T 20050916; AU 2006294111 A 20060825; CA 2622138 A 20060825; CN 200680031019 A 20060825; DE 502005002844 T 20050916; EP 05020207 A 20050916; ES 05020207 T 20050916; US 6697906 A 20060825