

Title (en)  
Hydrocyclone

Title (de)  
Hydrozyklon

Title (fr)  
Hydrocyclone

Publication  
**EP 1166882 A2 20020102 (DE)**

Application  
**EP 01107361 A 20010326**

Priority  
DE 20010899 U 20000620

Abstract (en)

The hydrocyclone, to separate a liquid (F) into fractions, has at least one inlet opening (2) for the liquid (F), at least one outlet (3) for lightweight matter and at least one outlet (4) for heavy matter. At least two openings are at rigid mountings fitted to the hydrocyclone (1), where at least two of the three openings can be positioned in relation to each other with adjusted settings. The gap (b) can be adjusted between the inlet opening (2) and the outlet (3) for lightweight matter, and the gap (d) can be adjusted between the inlet opening (2) and the outlet (4) for heavy matter. The gap can also be adjusted between the inlet opening (2) and the outlet for the removal of light dirt or air. The position of at least one center line through the openings can be adjusted axially at the hydrocyclone, to vary the dimensions of the structured gaps between the openings. In operation, the heavy matter drops to the bottom outlet opening (4) of the hydrocyclone. The gap adjustment is made through at least one threaded screw section (8), where the connection is fitted at the hydrocyclone (1). The threaded screw section (8) has a rotating threaded sleeve with an upper inner threading, and an axially offset lower inner threading, where one is a right thread and the other a left thread. The lower threading is screwed on to an outer threading at the hydrocyclone, and the upper threading is screwed to the outer threading of the pipe (7) which carries the lightweight matter to the outlet opening (3). Where there is an immersion pipe with the pipe for the outflow of lightweight matter, the outflow pipe slides in relation to the immersion pipe.

Abstract (de)

Der Hydrozyklon mit mindestens einer Einlassöffnung (2) für eine zu fraktionierende Flüssigkeit (F), mindestens einer Leichtstoffauslassöffnung (3) sowie mindestens einer Schwerstoffauslassöffnung (4) ist so ausgestaltet, dass die Positionen von mindestens zwei der genannten Öffnungen relativ zueinander verstellbar sind. Vorzugsweise ist der Abstand (b) zwischen der Einlassöffnung (2) und der Leichtstoffauslassöffnung (3) verstellbar.  
<IMAGE>

IPC 1-7  
**B04C 5/081**; **B04C 5/12**; **B01D 21/26**; **B01D 17/038**

IPC 8 full level  
**B01D 17/038** (2006.01); **B04C 5/081** (2006.01); **B04C 5/13** (2006.01); **B04C 5/14** (2006.01); **B04C 5/28** (2006.01); **B04C 11/00** (2006.01); **D21D 5/24** (2006.01)

CPC (source: EP)  
**B04C 5/081** (2013.01); **B04C 5/13** (2013.01); **B04C 5/14** (2013.01); **B04C 5/28** (2013.01); **B04C 11/00** (2013.01); **D21D 5/24** (2013.01); **B04C 2005/133** (2013.01)

Cited by  
CN1298433C

Designated contracting state (EPC)  
AT DE FI SE

DOCDB simple family (publication)  
**DE 20010899 U1 20000831**; EP 1166882 A2 20020102; EP 1166882 A3 20030723

DOCDB simple family (application)  
**DE 20010899 U 20000620**; EP 01107361 A 20010326