

Title (en)

A DEVICE FOR THE SEPARATION OF A LIQUID, ESPECIALLY WHOLE BLOOD

Publication

**EP 0038323 B1 19841010 (EN)**

Application

**EP 79900655 A 19801215**

Priority

SE 7900128 W 19790606

Abstract (en)

[origin: WO8002653A1] Device for the centrifugal separation of a liquid, especially whole blood, into fractions having different densities. Said device comprises a rotatable separation unit (5) comprising a separation chamber (5'), and a transferring element (2) in fluid communication with said chamber. The transferring of said liquid and said separated fractions between a source for said liquid and said separation chamber is realized without use of rotating couplings in that one end (3) of said transferring element is held fixedly, while the other end (4) thereof, i.e. the end which is next to said separation chamber, is rotatably connected to said chamber. As well said separation unit as said transferring element thereby will perform a rotation, when said separation chamber is rotating around an axis through said one end of said transferring element. Said transferring element (2) is thereby prevented from twisting or winding. More precisely, said transferring element (2) and said separation unit (5) will rotate one revolution (secondary rotation) per revolution made by the separation unit (5) when rotating (primary rotation) around said axis through said fixedly held end (3). By suitable choice of ratio between radius (r) of said separation chamber and radius (R) of said primary rotation, i.e. the distance between said separation chamber and the axis through said fixedly held end, said secondary rotation may be used to separate said liquid already before said liquid enters into said separation chamber (5').

IPC 1-7

**B04B 5/04**; **A61M 1/03**; **A61K 35/14**

IPC 8 full level

**A61K 35/14** (2006.01); **A61M 1/00** (2006.01); **B04B 5/00** (2006.01); **B04B 5/04** (2006.01)

CPC (source: EP)

**B04B 5/0442** (2013.01)

Citation (examination)

- SE 7214193 B
- DE 2833911 A1 19790215 - WESTBERG ERIC
- US 3856669 A 19741224 - ITO Y, et al

Designated contracting state (EPC)

AT CH DE FR GB LU SE

DOCDB simple family (publication)

**WO 8002653 A1 19801211**; AT E9766 T1 19841015; DE 2967251 D1 19841115; EP 0038323 A1 19811028; EP 0038323 B1 19841010; JP S56500600 A 19810507

DOCDB simple family (application)

**SE 7900128 W 19790606**; AT 79900655 T 19790606; DE 2967251 T 19790606; EP 79900655 A 19801215; JP 50094479 A 19790606