

Title (en)  
DEVICE FOR DETERMINING THE CONCENTRATION OF A BLOOD CONSTITUENT IN A TUBE LINE

Title (de)  
VORRICHTUNG ZUR BESTIMMUNG DER KONZENTRATION EINES BESTANDTEILS VON BLUT IN EINER SCHLAUCHLEITUNG

Title (fr)  
DISPOSITIF PERMETTANT DE DÉTERMINER LA CONCENTRATION D'UN COMPOSANT SANGUIN DANS UNE TUBULURE FLEXIBLE

Publication  
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Application  
**EP 12738045 A 20120720**

Priority

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Abstract (en)  
[origin: WO2013010677A2] The invention relates to a device for determining the concentration of a blood constituent in a tube line, in particular in the tube line of an extracorporeal blood circuit of an extracorporeal blood treating device. The invention further relates to a method for detecting a tube line, in particular a tube line of an extracorporeal blood circuit of an extracorporeal blood treating device, in a clamping unit of a device for determining the concentration of a blood constituent in the tube line. The device according to the invention for determining the concentration of a blood constituent in a tube line of an extracorporeal blood circuit is characterized by a clamping unit (12) that has an actuating mechanism (18) which is designed such that a first and second receiving element (15, 16) can be moved relative to each other from a first position that releases the tube line into a second position that clamps the tube line by applying a clamping force, said actuating mechanism being driven by an electric motor (19). The device according to the invention is further characterized by a monitoring unit (27) that is designed such that the tube line (17) placed into the receiving elements (15, 16) can be detected. Thus, an automation of the blood parameter measuring process is possible.

IPC 8 full level  
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Citation (search report)  
See references of WO 2013010677A2

Cited by  
CN110312538A; US11865243B2; US10525182B2; US10835658B2; US10835657B2; US10835659B2; US10869958B2; US10898635B2; US11406744B2; US11607482B2

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