

:

(54)

(2) (1) (2) (HGB) (A) (5a)

(A) (P), (T) (Q_b) (HGB)

5

1 , 2 , 1 , 2 ,

ch) . 1 , (arterial branch) , (venous bran

가 . 1 , 2 PVC 가 ,

1,240,489 1

, 가

, 가

, 가

, 가

, ;

, 1 12

가

가

2

가

1

2

3

4

5

6

7 6 ,

8 5 1 , ,

9 5 2 , .

5 , 1 .
 (1) (2), (3), (4) . , (2) ,
 (4) (7) , (5) (4) , (6) (返送) .
 (5) , (1) (8) (9) , (9) ((5) (HGB) .

(13), (9) (8) (4) (10), (11), (12),
 (5) (5a) (11, 12, 13) (14) . 1 , (10)
 (5) 2 가 (5b, 5c) .

6 7 , (10) (15) (15) (16) , (17)
 (16) , /
 (10) (fin)() ,

(15) (5b) (17), (5c) (18), (16) (19),
 (Di) (17) (19) (20) (16) (21),
 (23) (22), (21) (22) ()
 24) . , (12) (16) , (14)
 (24) (25) .

(11) (26) (27) , (26) 가 , " (NIR)"
 (15) (18) , (27)
 (11)
 1,240,489 .

(T) (13) 가 NIR .
 , (8) 1 (2) (10) (Q_b)
 (8) (Q_b) (14) ,

(12) (P) (14) (15) (20) (13) (T)
 (Di) , (27) (20)
 (I_o) , (I_R) (1
 4) (I_o) (I_R) . , ((A) (I_o) (I_R) .

(HGB) , (HGB) (A) , 1
 (I₀) (I_R)

(HGB) 3 (P)
 (Q_b) , 2 (T)

(Q_b), (P), (T)가 (A) , (A)
 (HGB)

(1)
 (HGB) , (P) 가 가
 (T)

가 가 가 (9)

(Di) (A) (14) , (Q_b) (HGB)
 (12) (P) , (8) (Q_b) , (13)
 (T)

$$HGB = \left(\ln \frac{I_R}{I_0} \right) \cdot f(Q_b, P, Di, T) = \left[\ln \left(1 - \frac{A}{I_0} \right) \right] \cdot f(Q_b, P, Di, T)$$

(P), (Q_b), (T) 2 , 가 3
 (A) 가 (HGB)

(10) HGB
 (15) 가 [(8)] HGB
 (15) (16) , (16)
 (15) (16)
 (10)가 ,
 50 mm (15) (20) (16)
 (20) 10 mm (Di) , 6 7 25 mm (15)

8 9 , (27) (I_R) (t)
 (I_R) (VAR) (t)

8 , (I_R) , (8)가 (Q_b)
 (1) 1 (28) , (11)
 2 (29) , 1 (28) (I_R) 2 (29)
 (I_R) 가 , (VAR) 1 (28) 2 (29)
 , (2) .

9 , (I_R) , (1) 1 (30) , (1)
 1) (I_R)
 2 (31) , (t) (VAR)

(VAR) (14) , (VAR) (1) [, (2)] 가
 가 (14) (E) (VAR) 가
 , (A) (HGB) , (5) (11)

(57)

1.

(1) (2) (HGB) ,
 (2) (5a) , (HGB)
 ; (P), (T) (Q_b)
 , (A)
 (HGB)

2.

1 , (HGB) (5a) (P) (A)

3.

1 , (HGB) (5a) (Q_b) (A)

4.

1 , (HGB) (5a) (T) (A)

5.

1 , (5a) (Q_b) (8) ,
 (HGB) (A), (P), (Q_b)

6.

1 (HGB) , (5a) (A), (P), (Q_b) (Q_b), (T) (8) ,

7.

(20) , (5a) (15) (20) ,

8.

7 , (20) (Di)

9.

8 , (HGB) (20) (Di)

10.

1 9 (I_O) (A) (5a) (11) , (I_R) (27)
 , (A) (I_O) (I_R) (26) , (I_R) (27)

11.

10 (5a) , (I_R) (VAR) , (VAR) 가

12.

1 , (VAR) 가 , (E)

13.

1 12 ,
 (2) (5a) (10) , (A)
 (15) (P) (16)

14.

13 , (16) 가 (24)

15.

13 14 , (5) (6) , (10) (5)

16.

13 , (15) (16)

17.

13 , (15) (16)

18.

13 , (15) 2 , 1 (20) 50 mm , (16)

19.

13 , (20) 10 mm (Di)

20.

(1) (2)

(2) (5a) (10) (A) , (10) (15) (HGB) , (A)

2, 13) 2 , (P) (T) 가 (1
(HGB) (A)

21.

20 (25) , (P) (12) 가 , (24) (16) (HGB) (A) (5a) (P)

22.

20 21 , (10) (13)

23.

20 22 , (10) (Q_b) (8)
 , (HGB) (Q_b)

24.

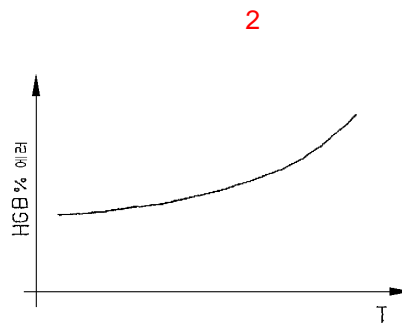
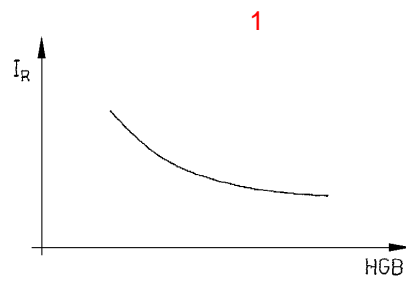
21 , (15) (16)

25.

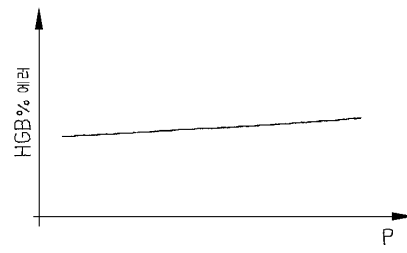
21 , (15) (11) , (11) (I_o)
 (I_R) (26) (I_R) (27) , (A) (I_o)
 (I_R)

26.

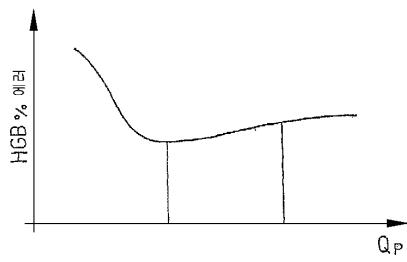
25 , (11, 12, 13) (8) (14)



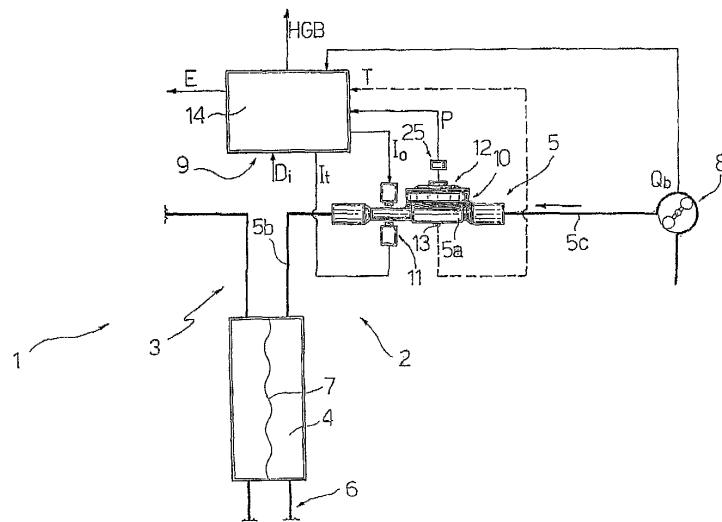
3



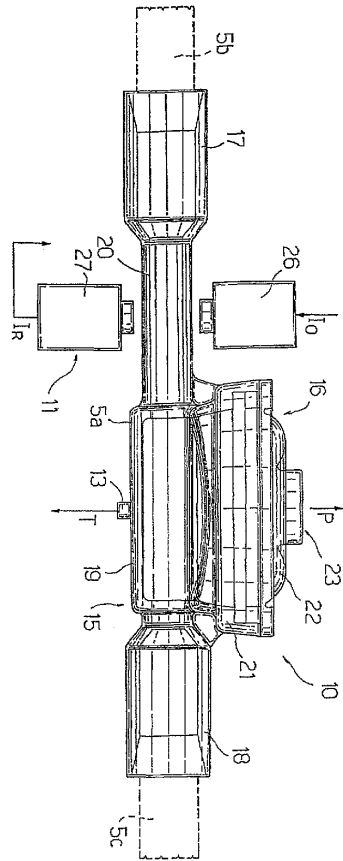
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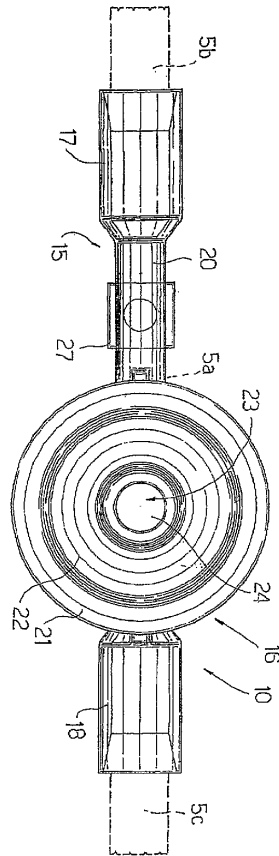
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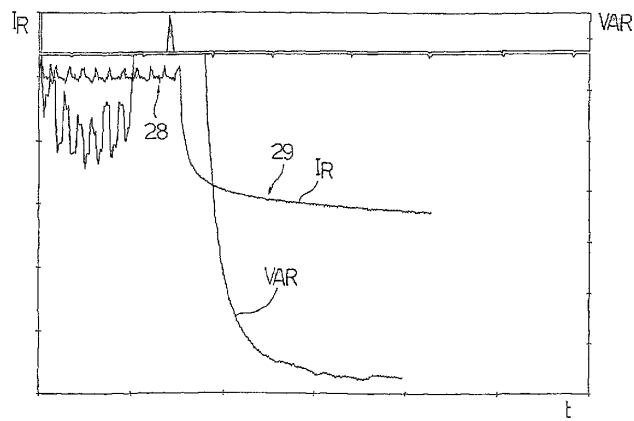
9



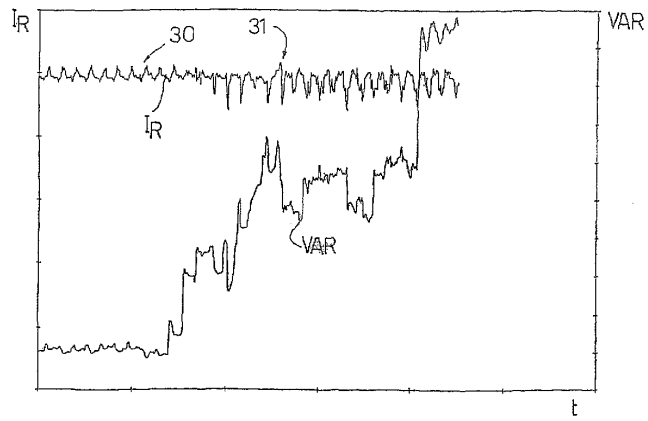
7



8



9



专利名称(译)	一种测量透析器和测量装置的回路中的血液中血红蛋白浓度的方法		
公开(公告)号	KR1020020093105A	公开(公告)日	2002-12-12
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CPC分类号	A61B5/14557 A61M1/3639 A61M1/3641 A61M1/367 A61M2230/207 G01N21/31 G01N21/35 G01N21/359 G01N21/85		
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优先权	102001900913029 2001-03-02 IT		
外部链接	Espacenet		

摘要(译)

本发明涉及一种测量透析器(1)的回路(2)中血液的血红蛋白浓度(HGB)的方法,所述方法包括以下步骤:测量电磁波吸收值A,并测量由沿着部分5a输送的血液的压力P,血液的温度T和血液的流量Qb组成的组中的物理量值,并计算血红蛋白浓度(HGB)作为吸收值(A)和物理量的函数。五

