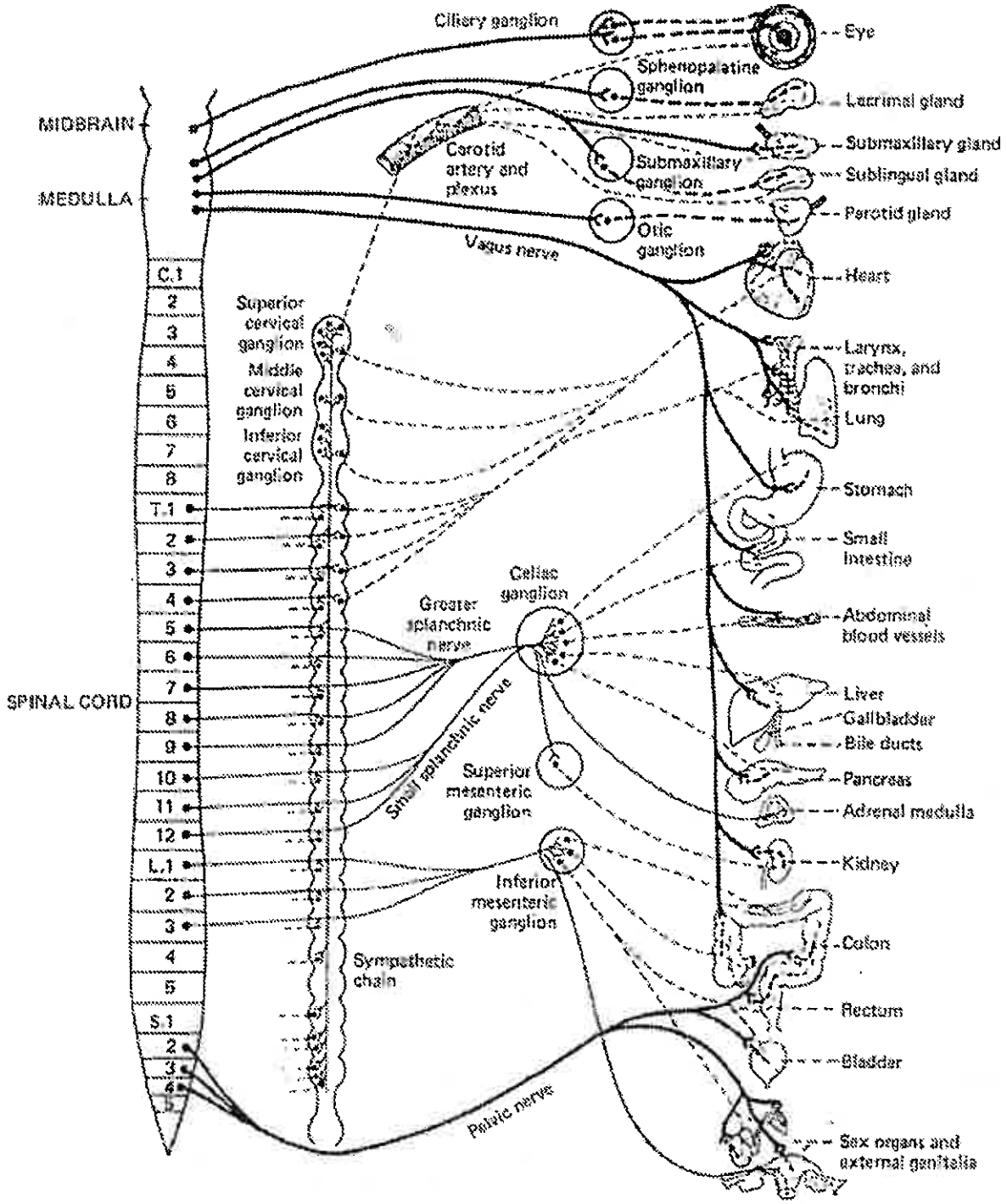

Ciliary ganglion
Eye
Sphenopalatine ganglion
Lacrimal gland
MIDBRAIN
Carotid artery and plexus
Submaxillary ganglion
Submaxillary gland
Sublingual gland
MEDULLA
Otic ganglion
Parotid gland
Vagus nerve
Heart
C.1
2
3
4
5
6
7
8
T.1
2
3
4
5
6
7
8
9
10
11
12
L.1
2
3
4
5
S.1
2
3
4
5
Superior cervical ganglion
Middle cervical ganglion
Inferior cervical ganglion
Larynx, trachea, and bronchi
Lung
Stomach
Small intestine
Celiac ganglion
Greater splanchnic nerve
Abdominal blood vessels
SPINAL CORD
Liver
Gallbladder
Bile ducts
Small splanchnic nerve
Superior mesenteric ganglion
Pancreas
Adrenal medulla
Kidney
Inferior mesenteric ganglion
Colon
Sympathetic chain
Rectum
Bladder
Pelvic nerve
Sex organs and external genitalia

Fig. 1

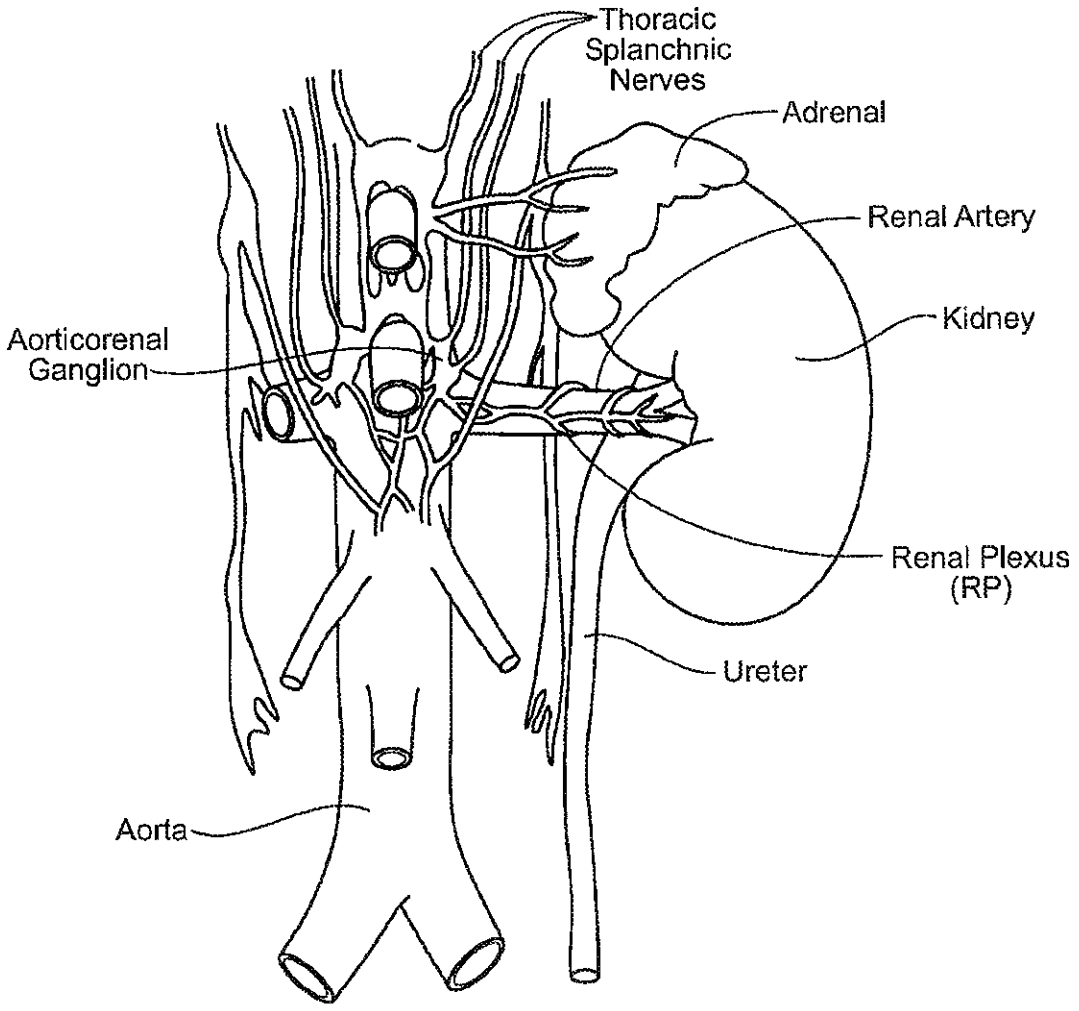

Thoracic
Splanchnic
Nerves
Adrenal
Renal Artery
Kidney
Aorticorenal
Ganglion
Renal Plexus
(RP)
Ureter
Aorta

Fig. 2

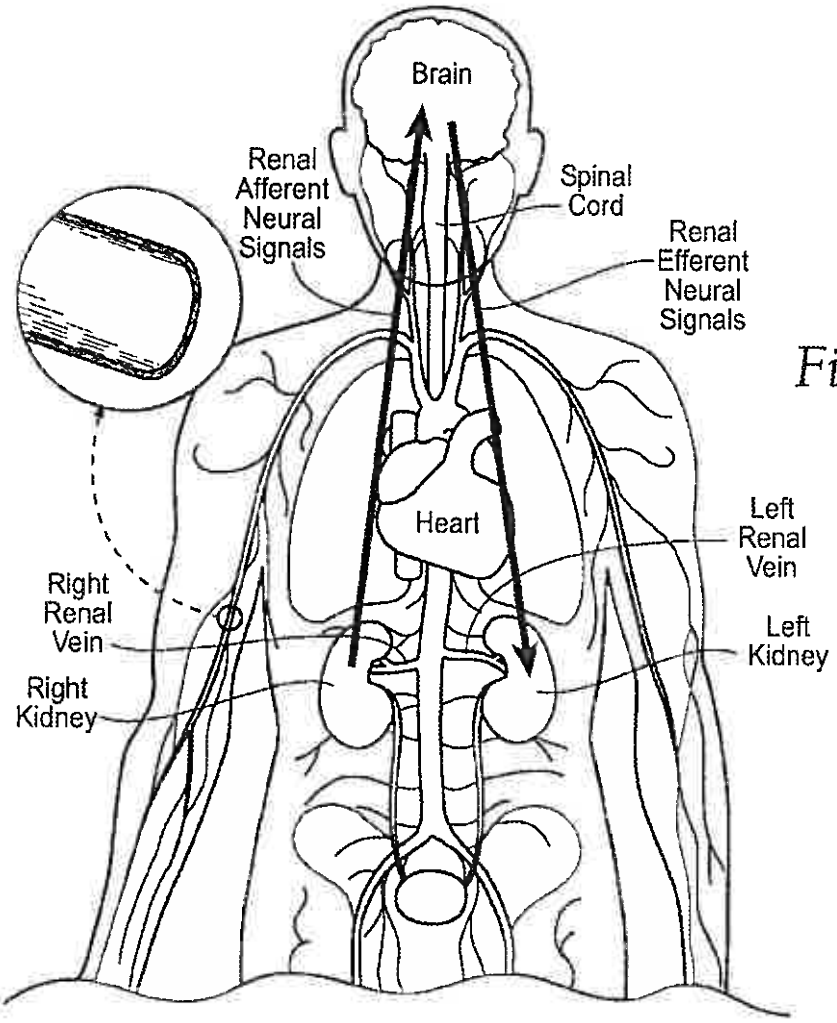

Brain
Renal Afferent Neural Signals
Spinal Cord
Renal Efferent Neural Signals
Heart
Left Renal Vein
Right Renal Vein
Left Kidney
Right Kidney

Fig. 3A

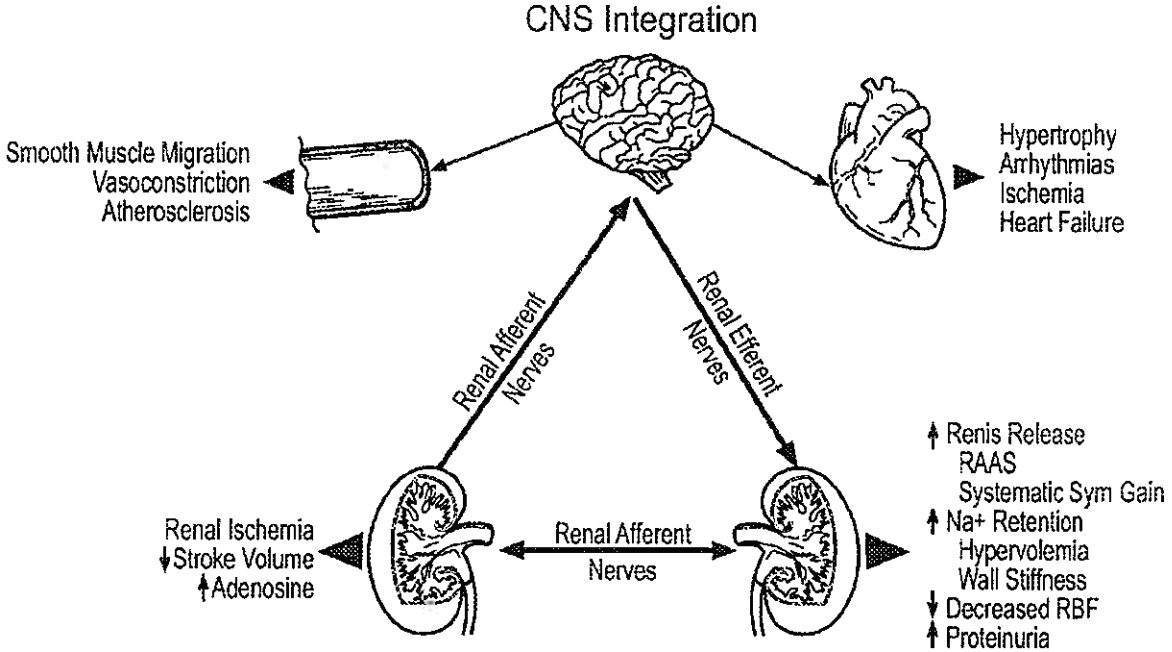

CNS Integration
Smooth Muscle Migration
Vasoconstriction
Atherosclerosis
Hypertrophy
Arrhythmias
Ischemia
Heart Failure
Renal Afferent Nerves
Renal Efferent Nerves
Renal Ischemia
↓Stroke Volume
↑Adenosine
Renal Afferent Nerves
↑ Renis Release
RAAS
Systematic Sym Gain
↑ Na+ Retention
Hypervolemia
Wall Stiffness
↓ Decreased RBF
↑ Proteinuria
↑ BNP Resistance

Fig. 3B

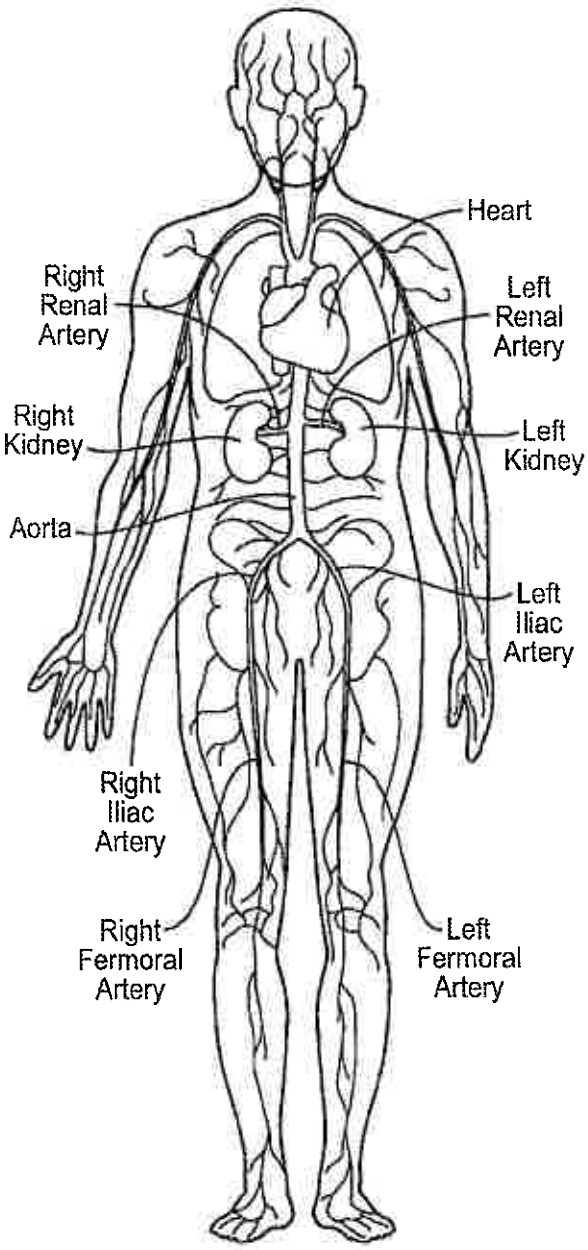


Fig. 4A
Arterial Vasculature

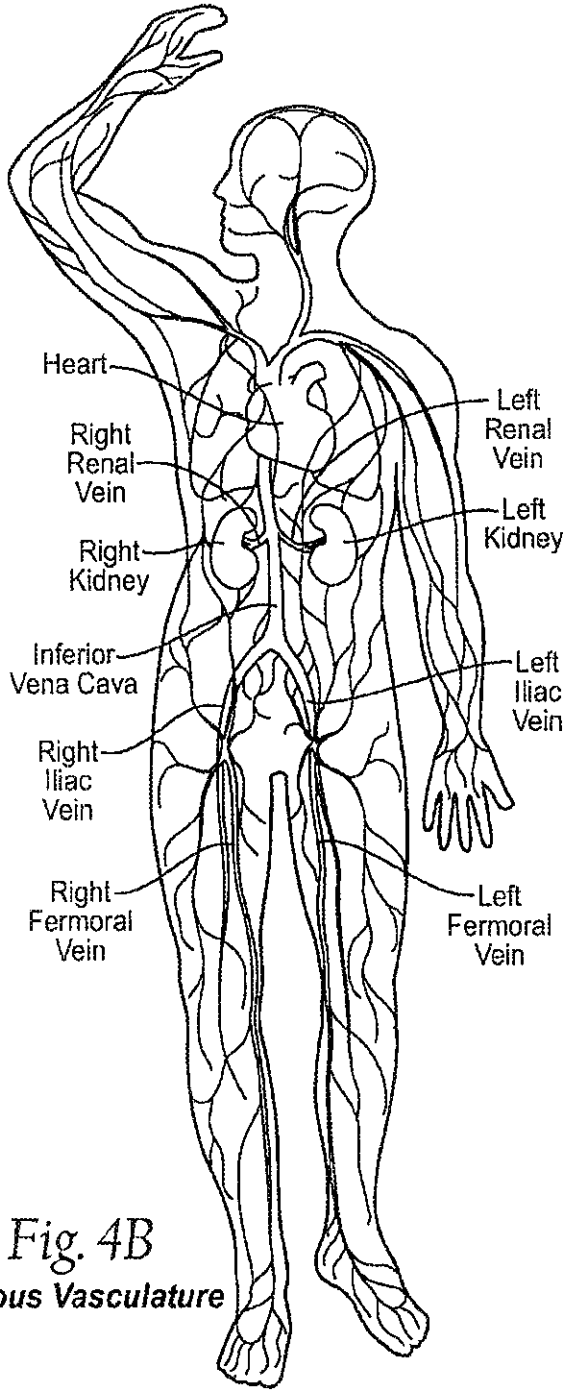


Fig. 4B
Venous Vasculature

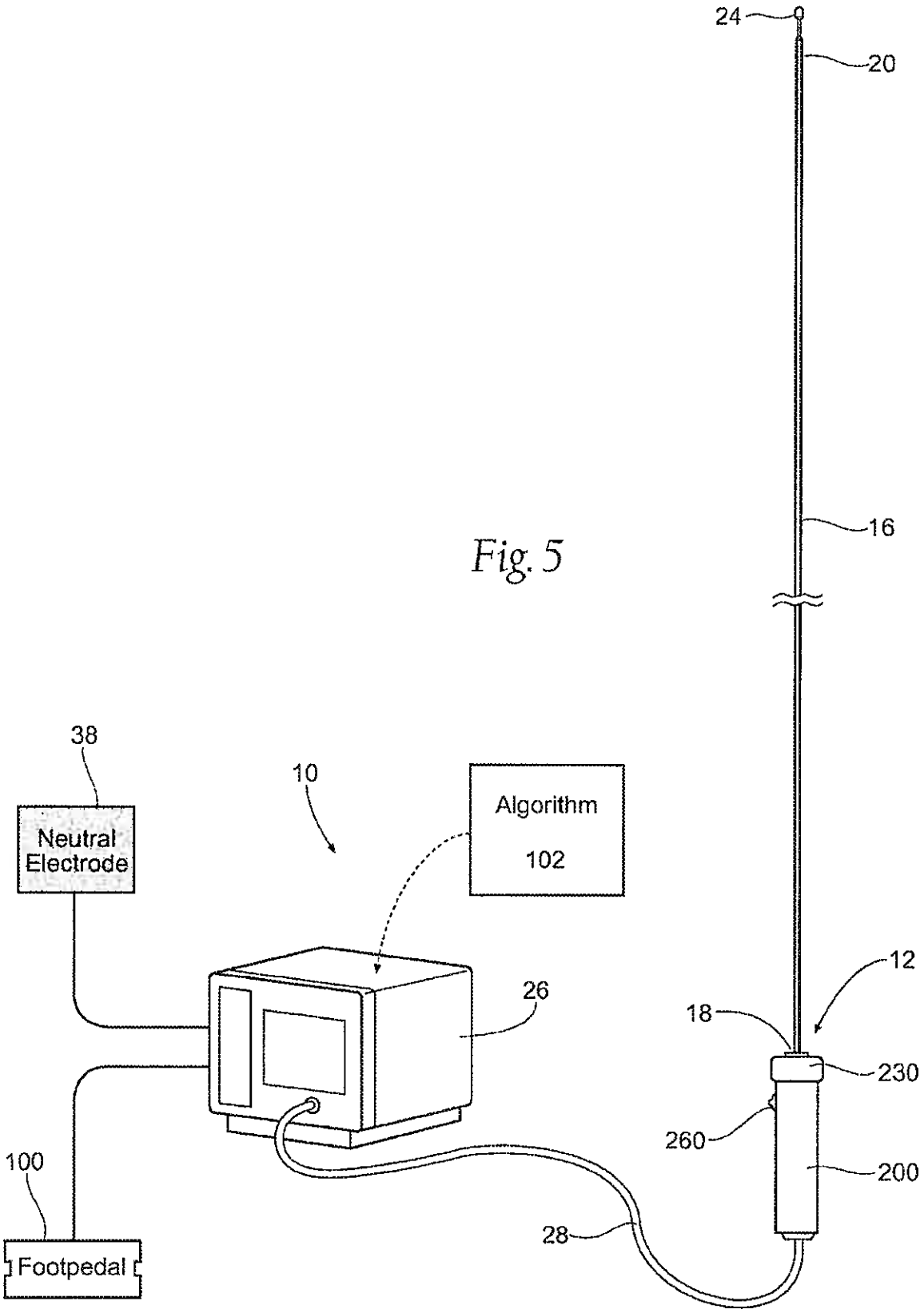

24
20
16
38
10
Algorithm
102
Neutral
Electrode
12
26
18
230
260
200
100
28
Footpedal

Fig. 5

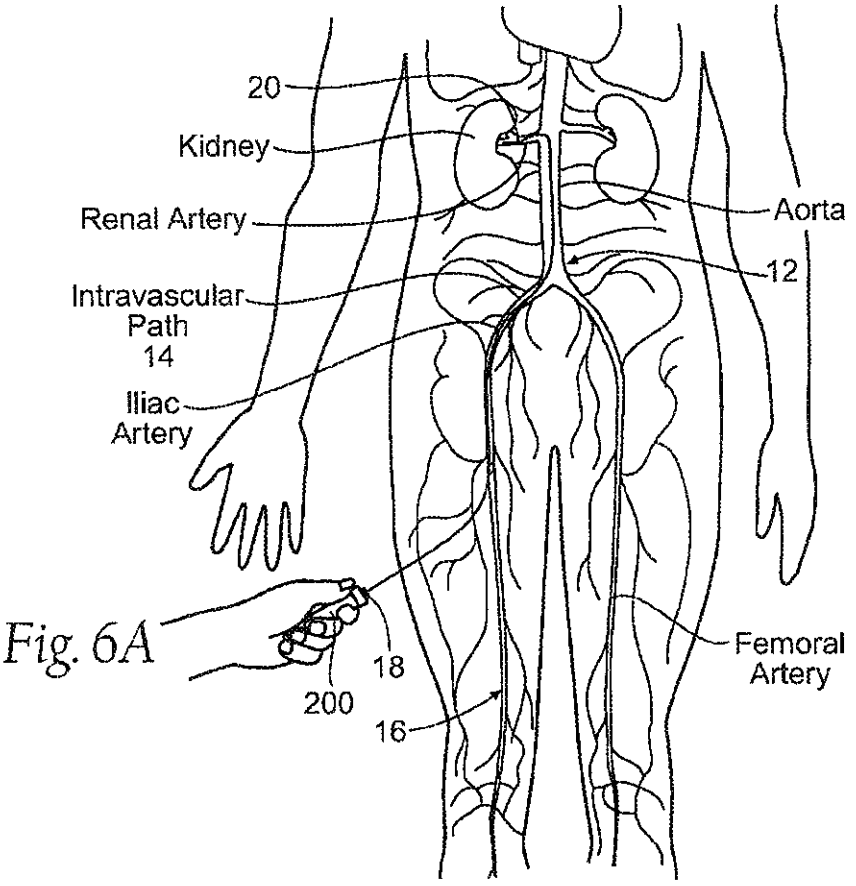

20
Kidney
Renal Artery
Intravascular Path 14
Iliac Artery
Aorta
12
Femoral Artery
18
200
16

Fig. 6A

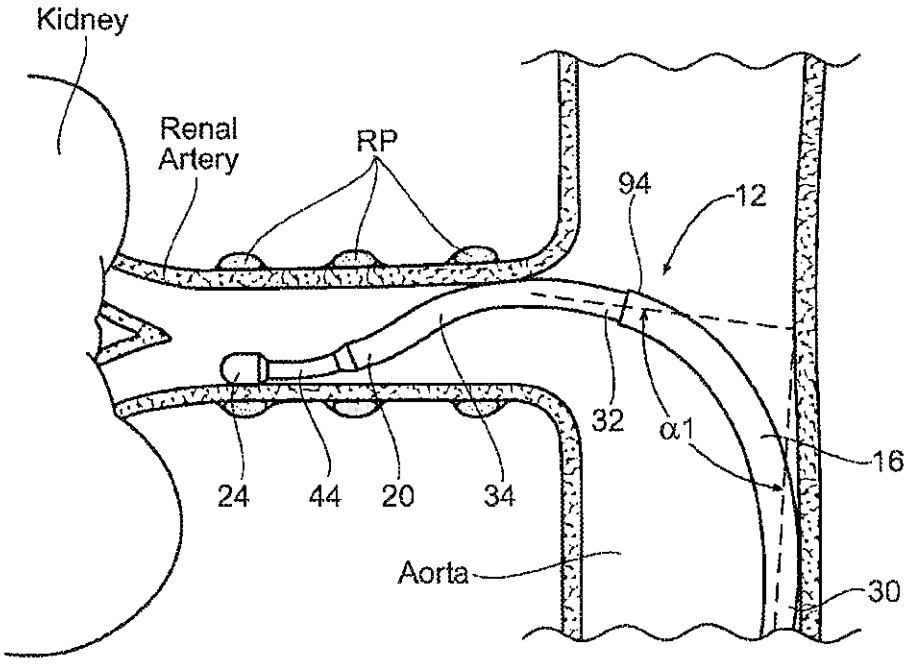

Kidney
Renal Artery
RP
94
12
32
α1
16
24
44
20
34
Aorta
30

Fig. 6B

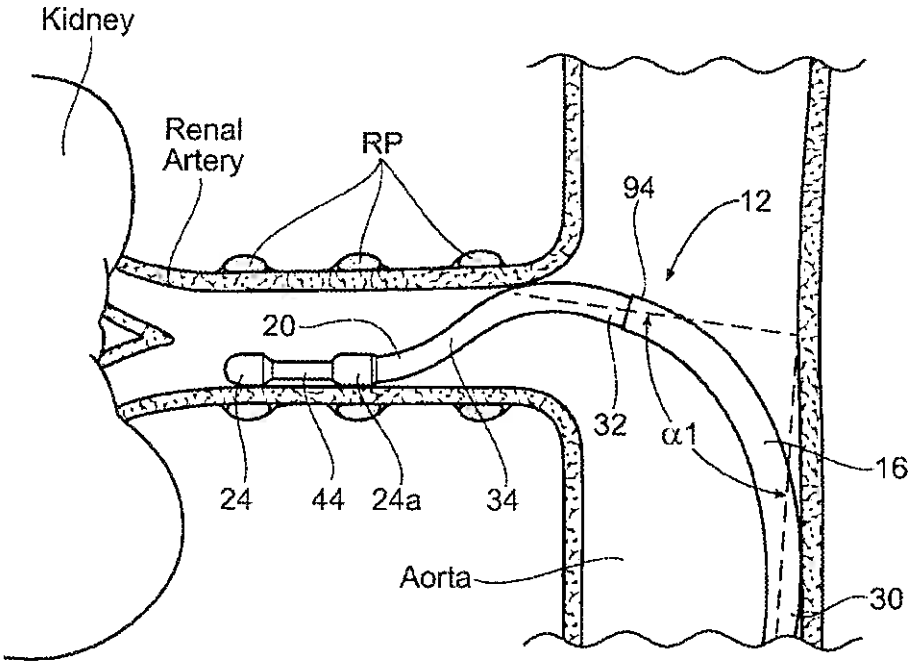

Kidney
Renal Artery
RP
94
12
20
32
α1
16
24
44
24a
34
Aorta
30

Fig. 6C

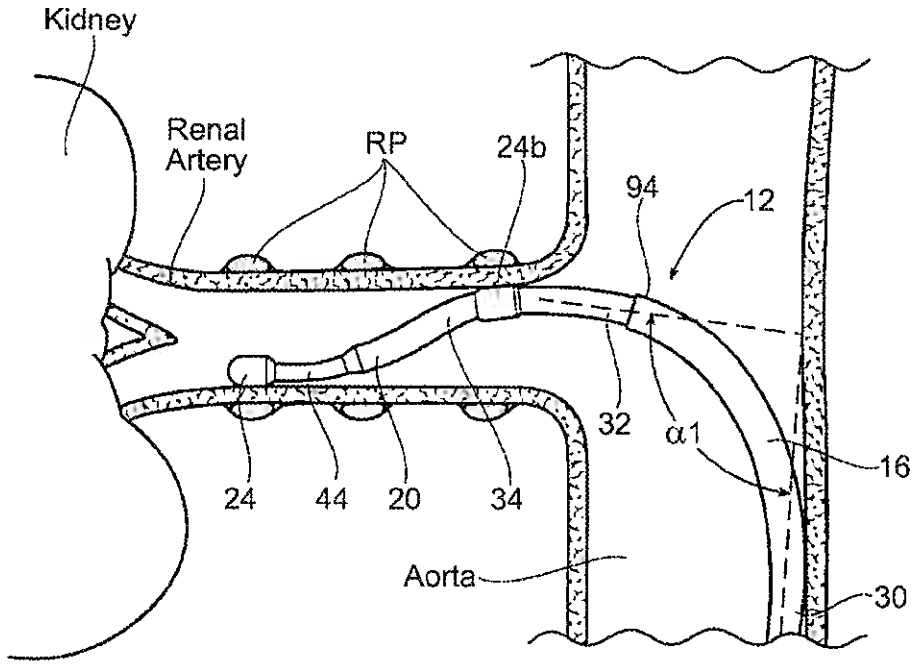

Kidney
Renal Artery
RP
24b
94
12
32
α1
16
24
44
20
34
Aorta
30

Fig. 6D

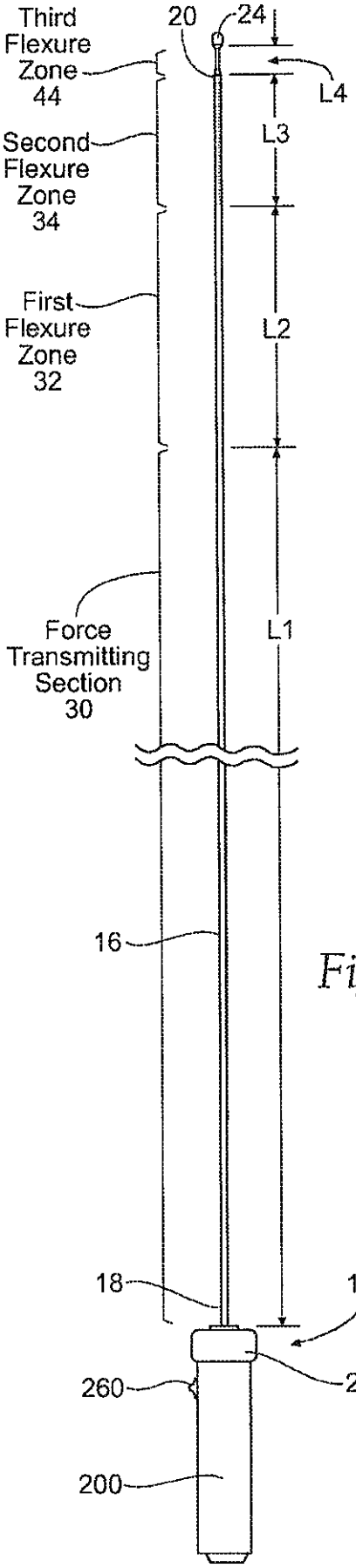


Fig. 7A

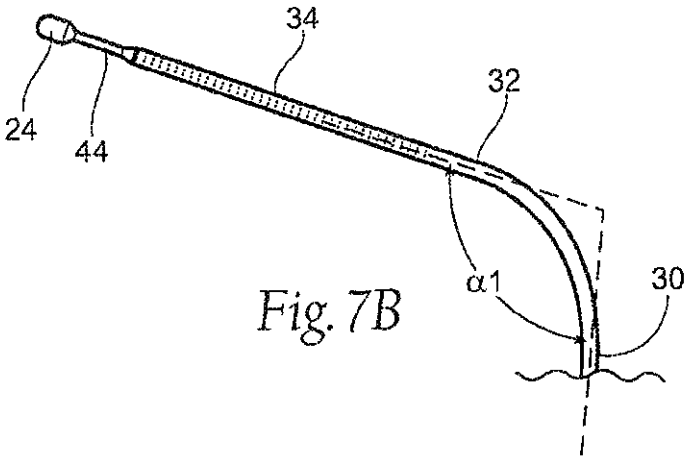


Fig. 7B

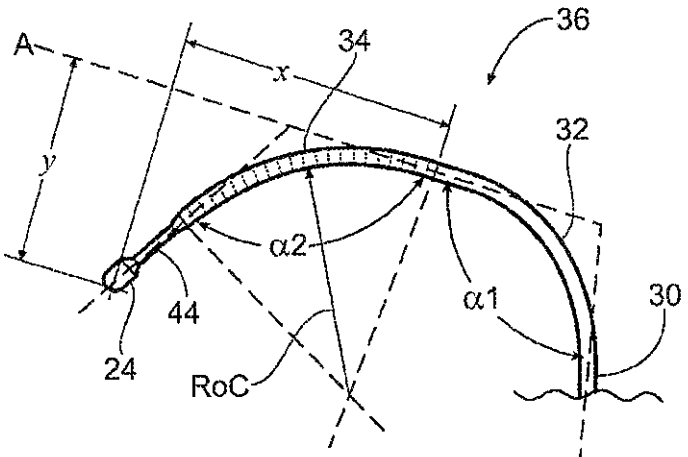


Fig. 7C

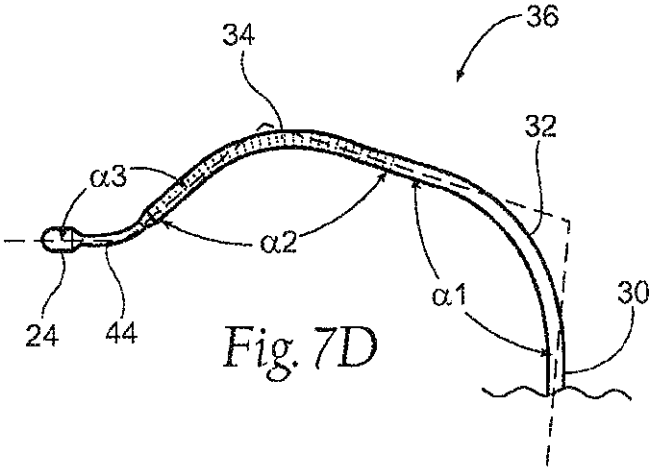


Fig. 7D

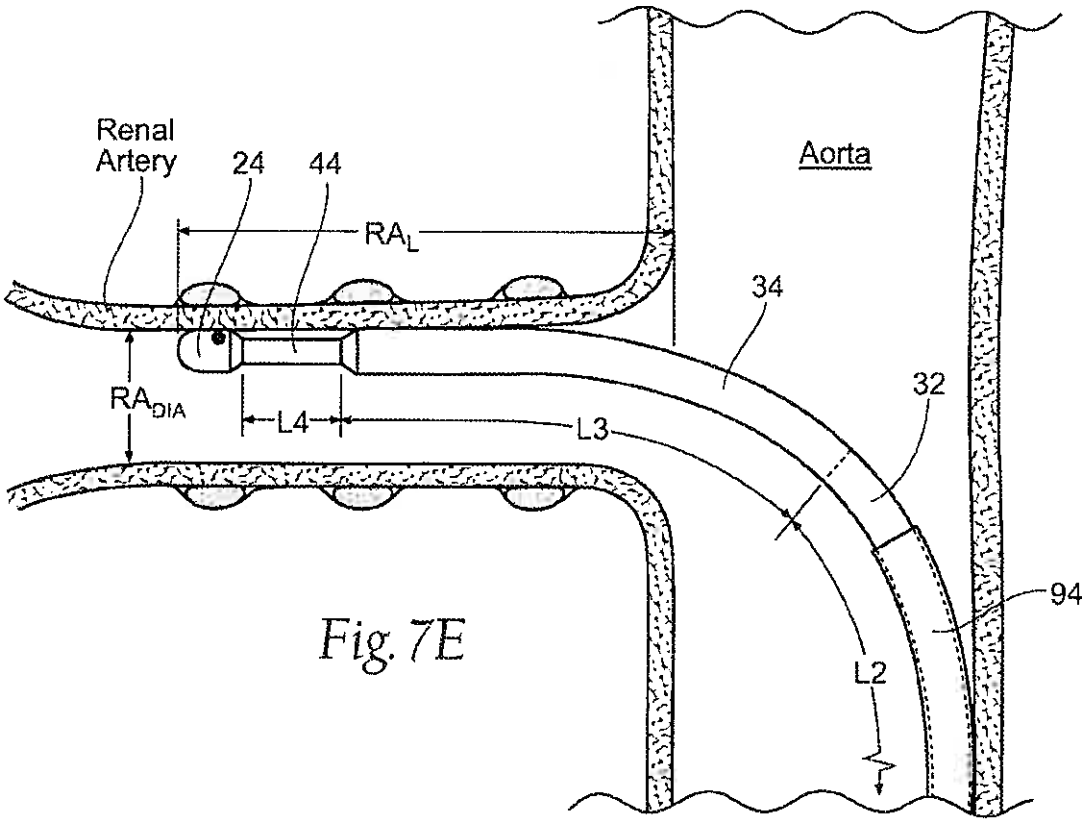

Renal Artery
24
44
RA_L
Aorta
34
32
RA_{DIA}
L4
L3
94
L2

Fig. 7E

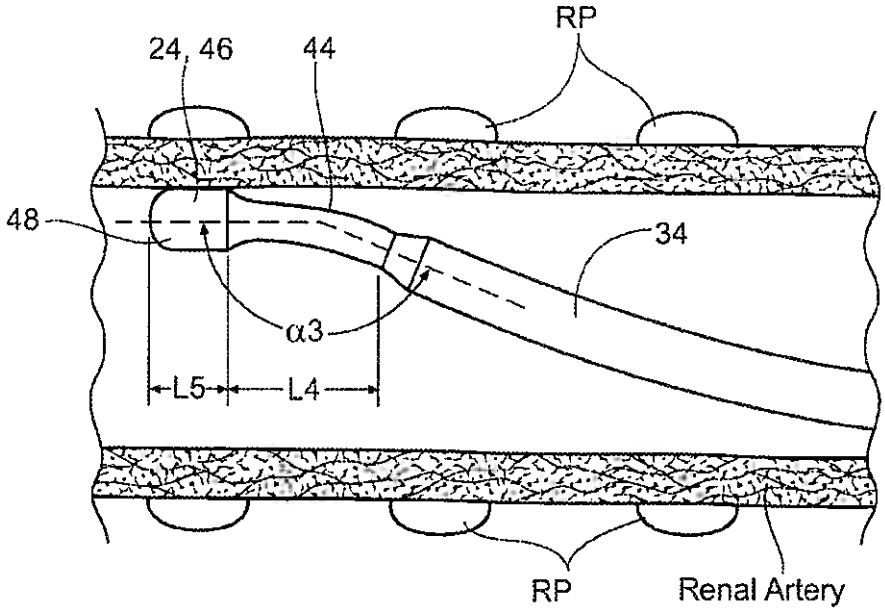

RP
24, 46
44
48
34
α3
L5
L4
RP
Renal Artery

Fig. 8A

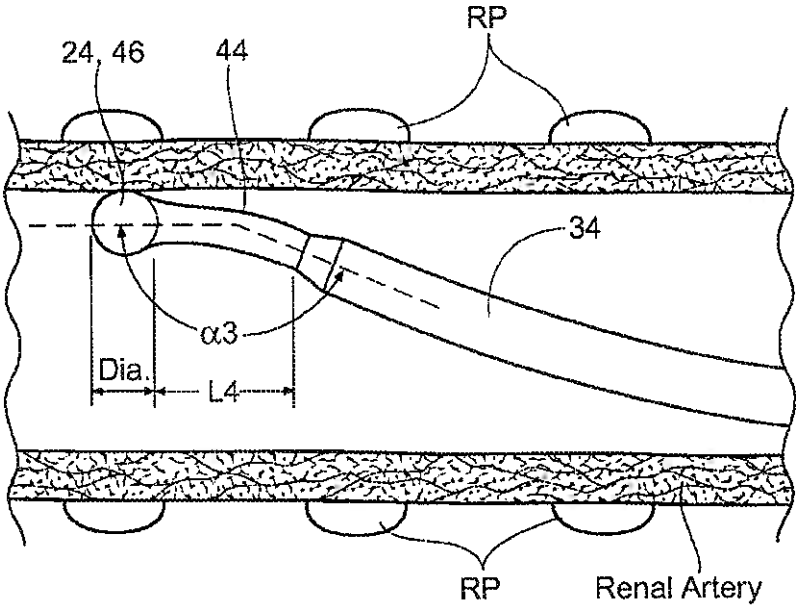

RP
24, 46
44
34
α3
Dia.
L4
RP
Renal Artery

Fig. 8B

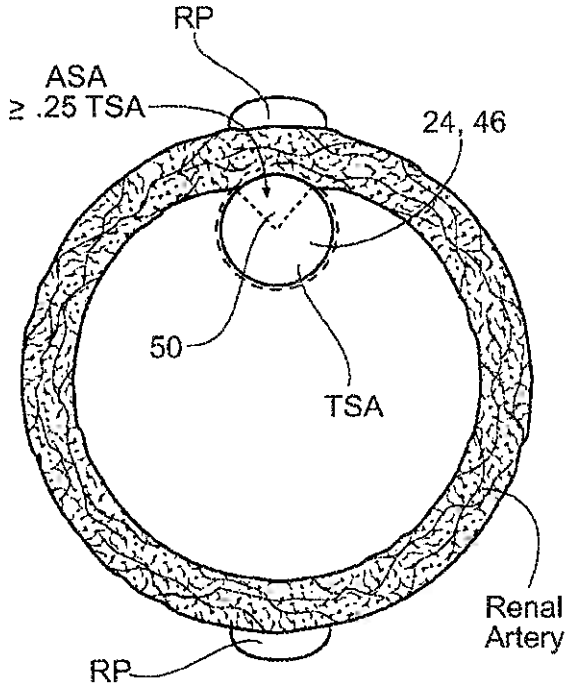

RP
ASA
≥ .25 TSA
24, 46
50
TSA
Renal
Artery
RP

Fig. 8C

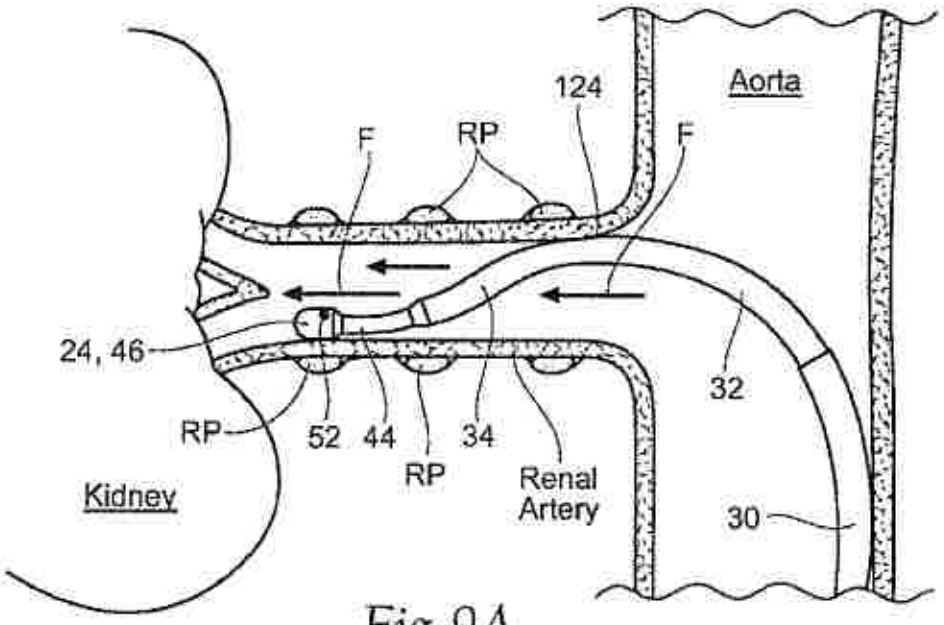

Aorta
124
F
RP
F
24, 46
32
RP
52
44
34
RP
Renal
Artery
Kidney
30

Fig. 9A

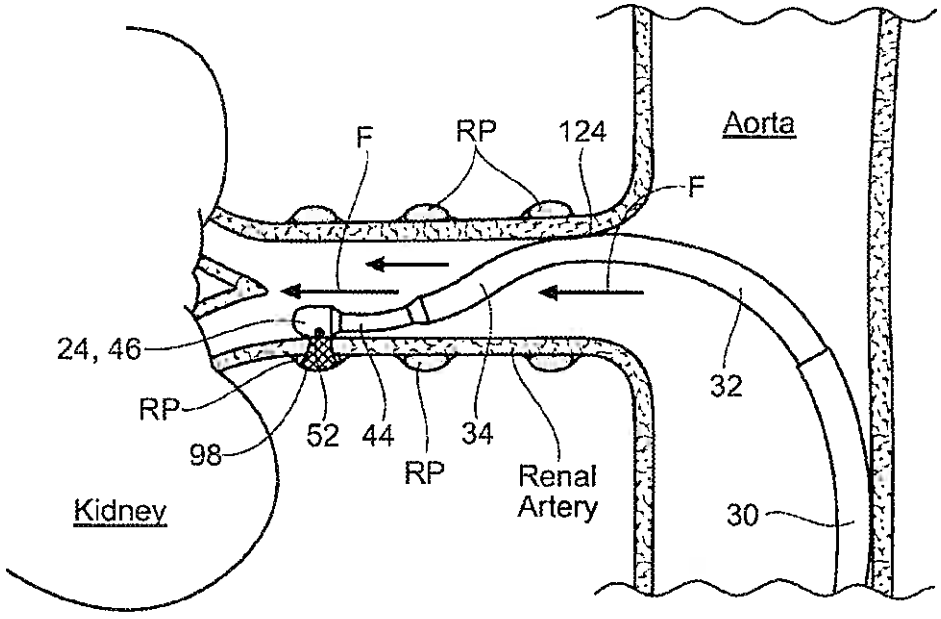

Aorta
F
RP
124
F
24, 46
32
RP
98
52
44
34
RP
Renal
Artery
Kidney
30

Fig. 9B

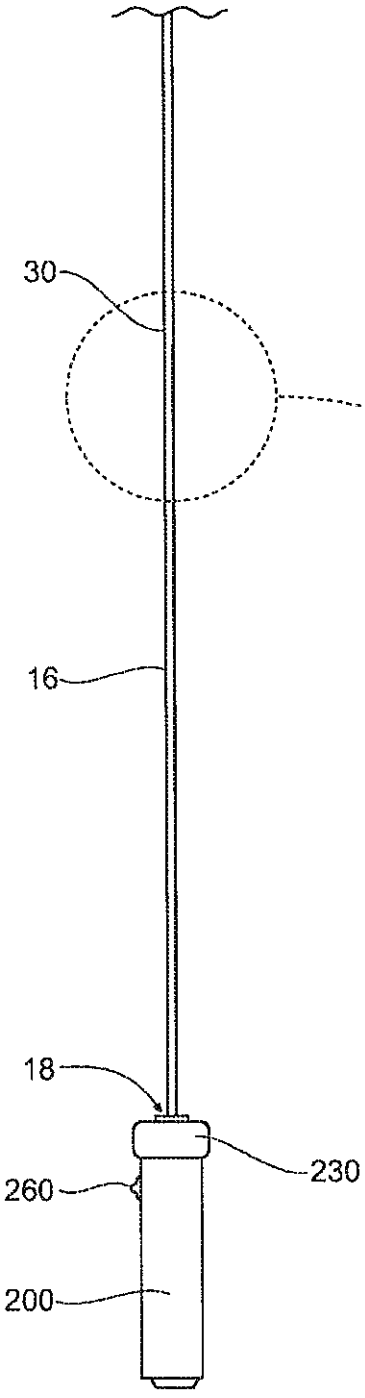


Fig. 10A

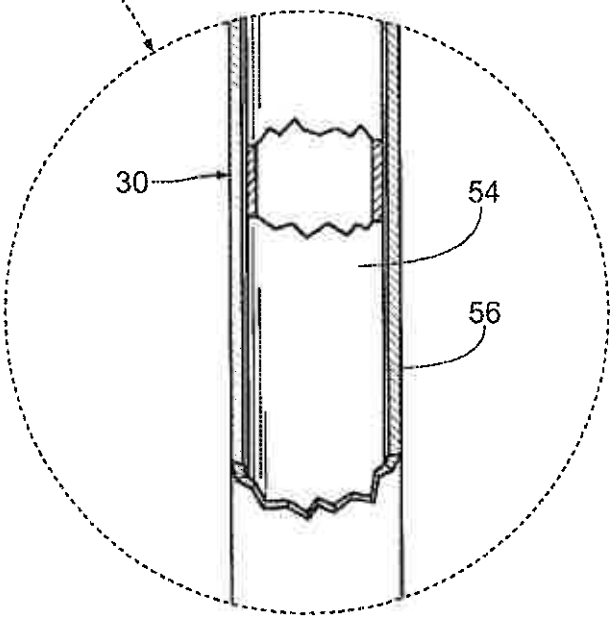


Fig. 10B

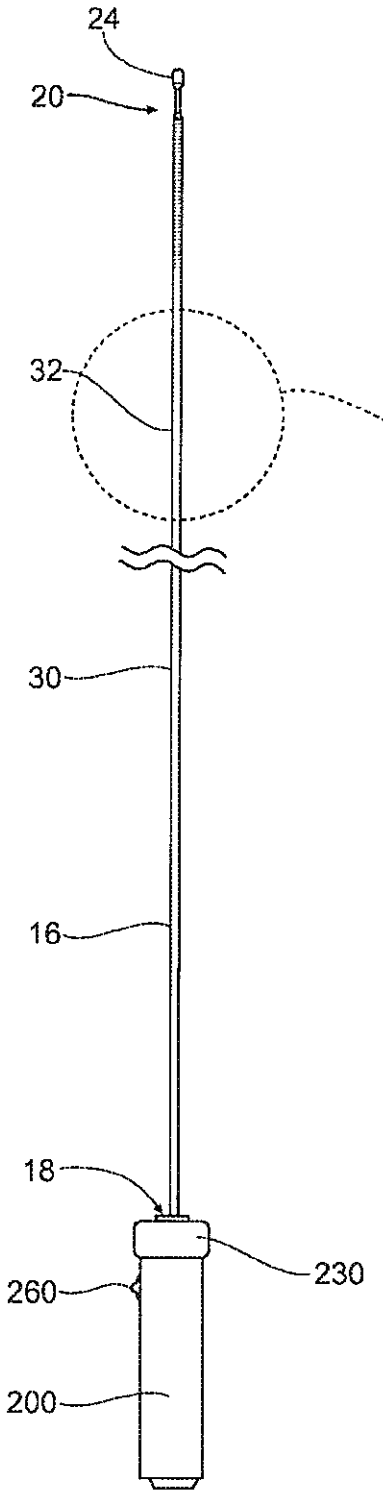


Fig. 11A

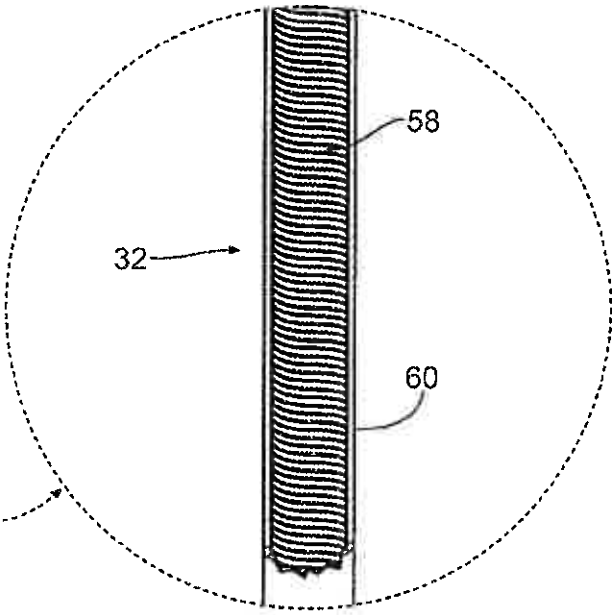


Fig. 11B

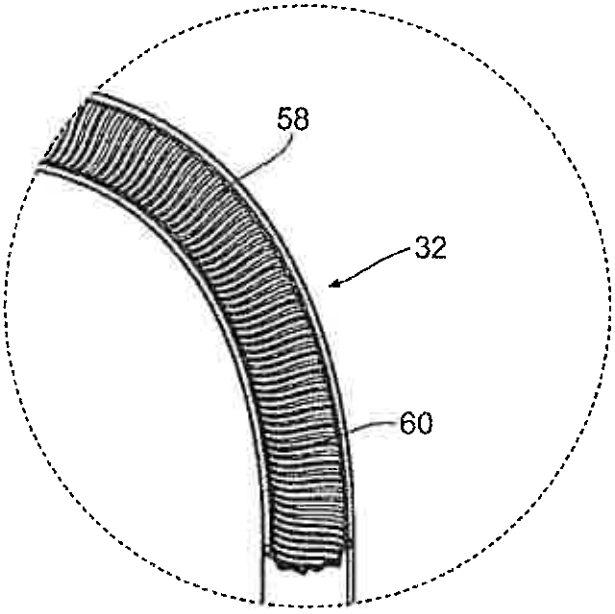


Fig. 11C

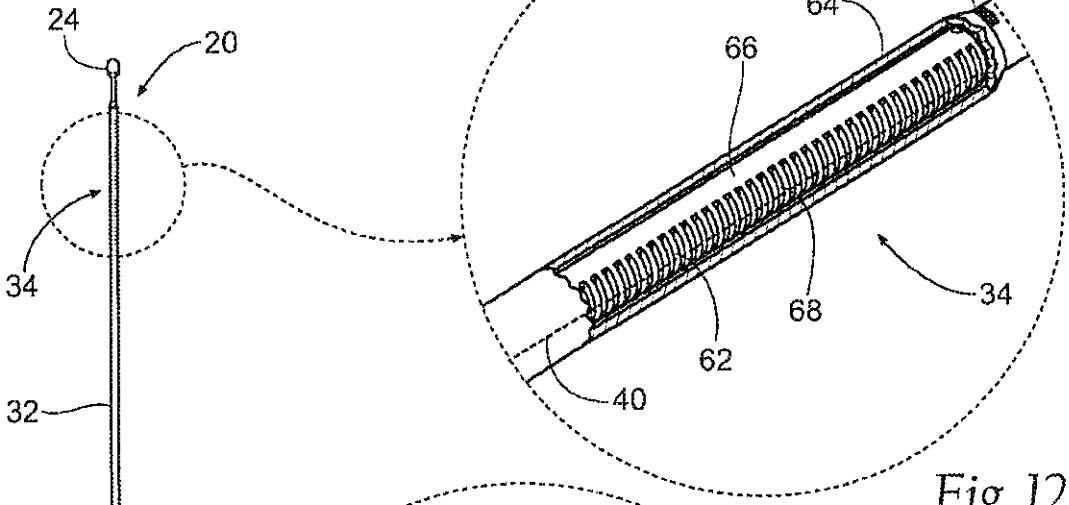


Fig. 12B

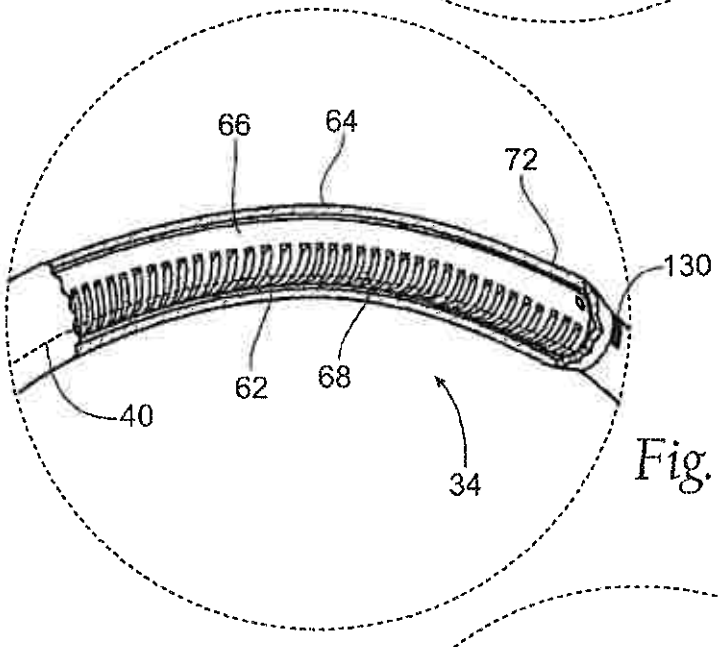


Fig. 12C

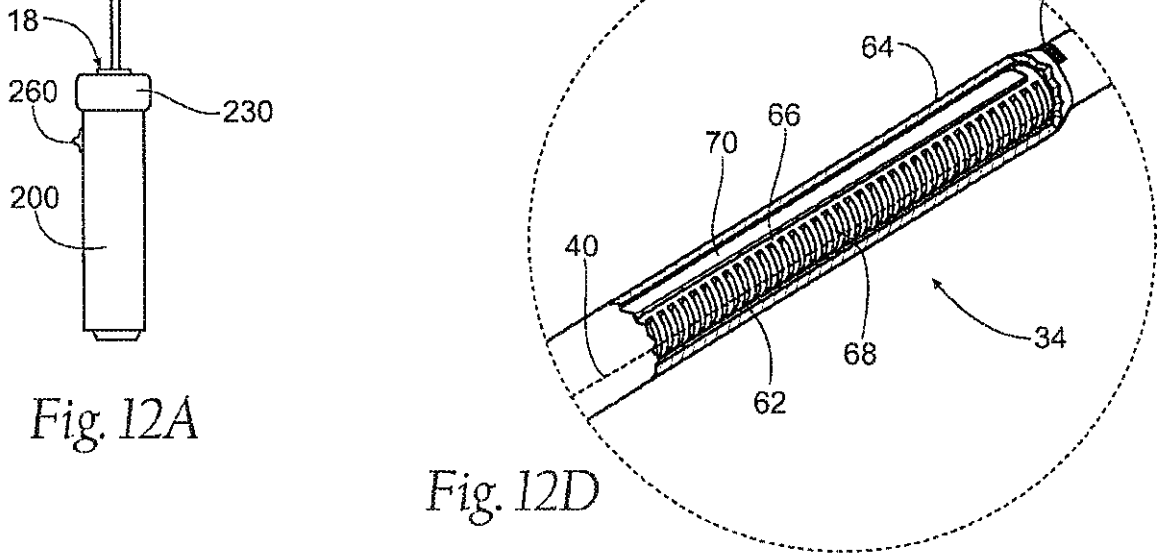


Fig. 12A

Fig. 12D

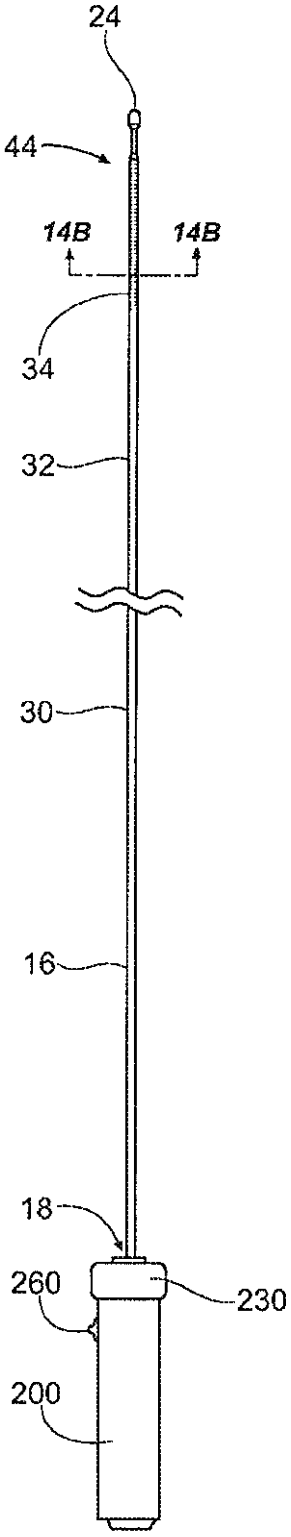


Fig. 13A

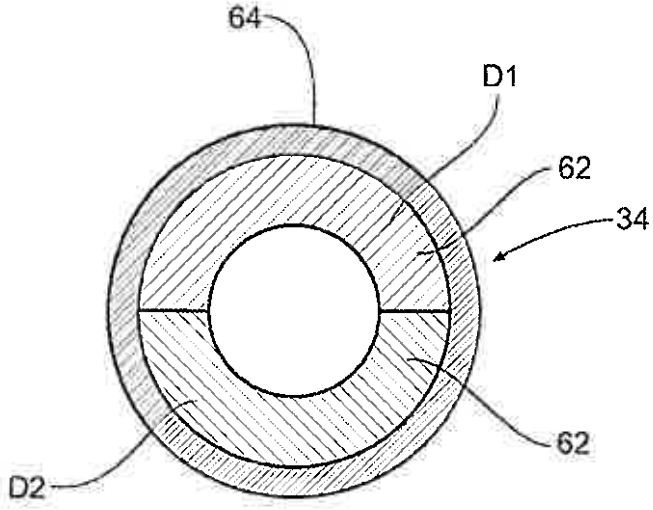


Fig. 13B

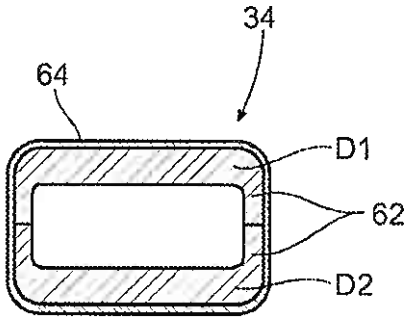


Fig. 13C

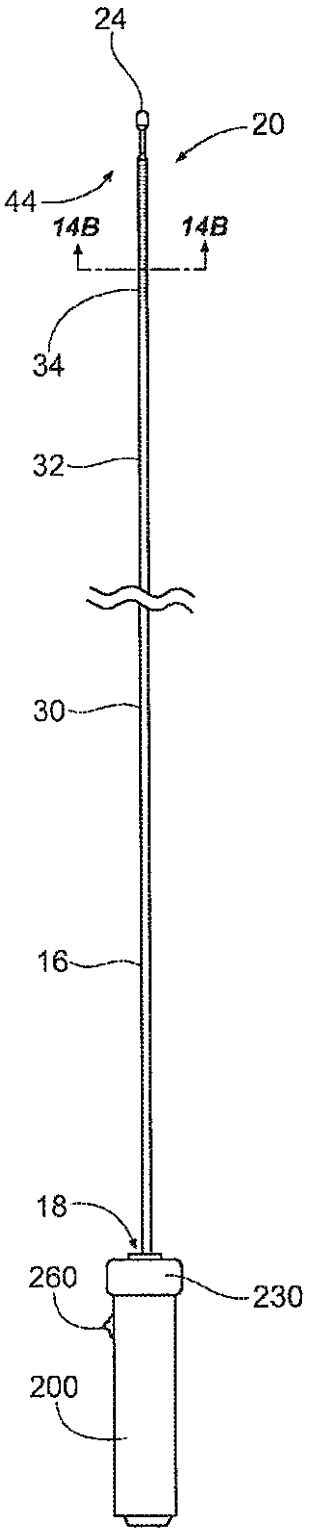


Fig. 14A

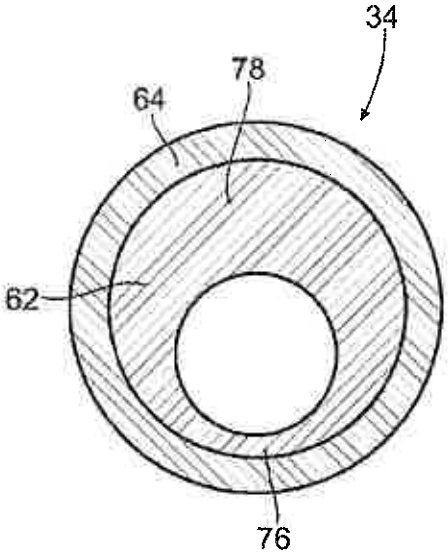


Fig. 14B

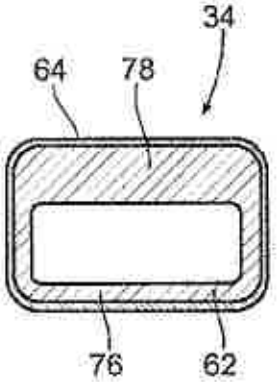


Fig. 14C

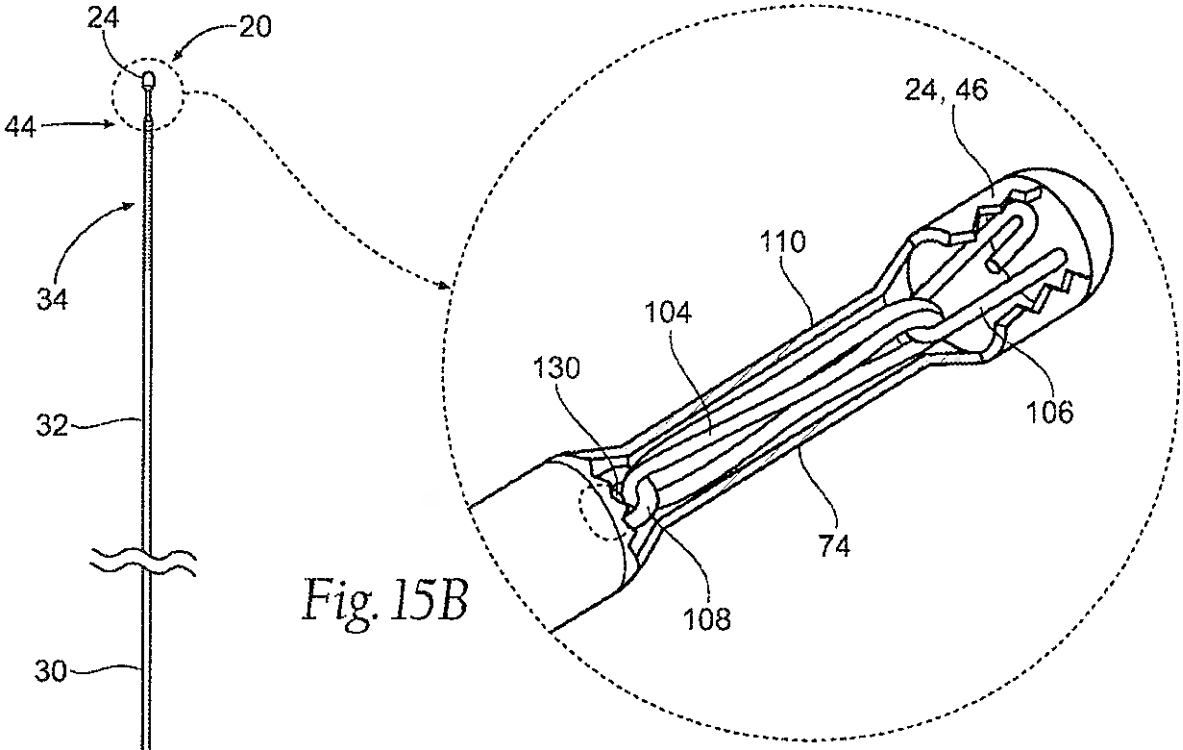


Fig. 15B

Fig. 15A

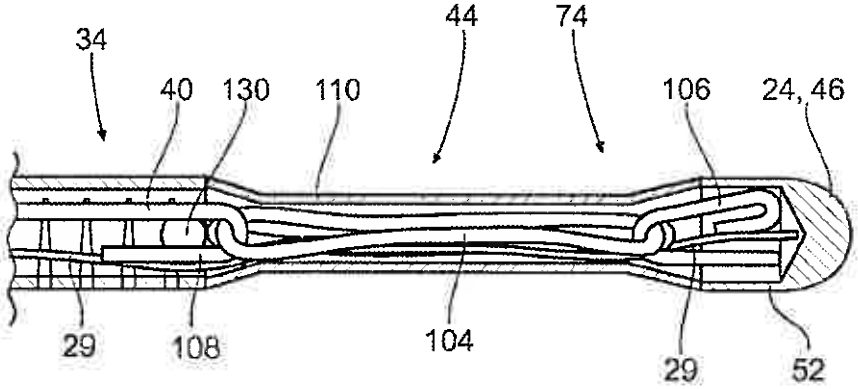


Fig. 15C

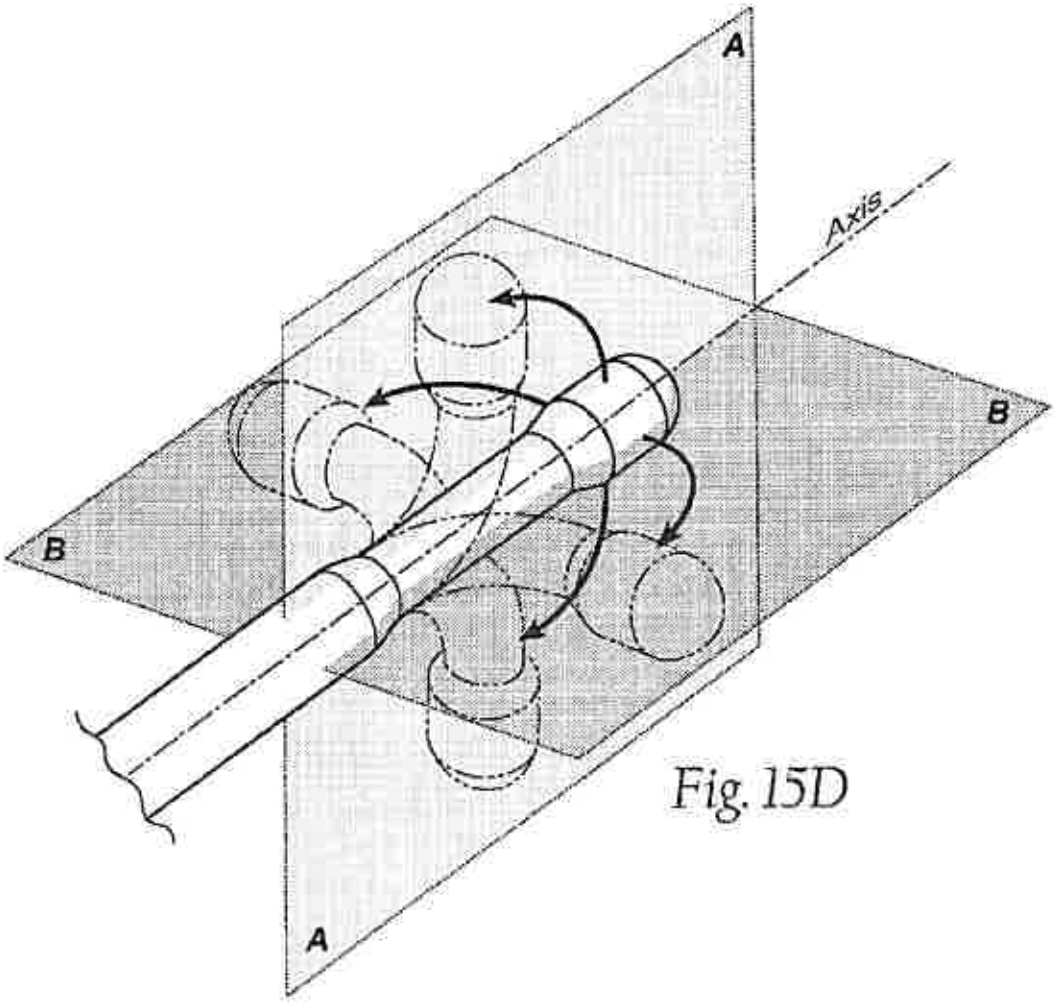


Fig. 15D

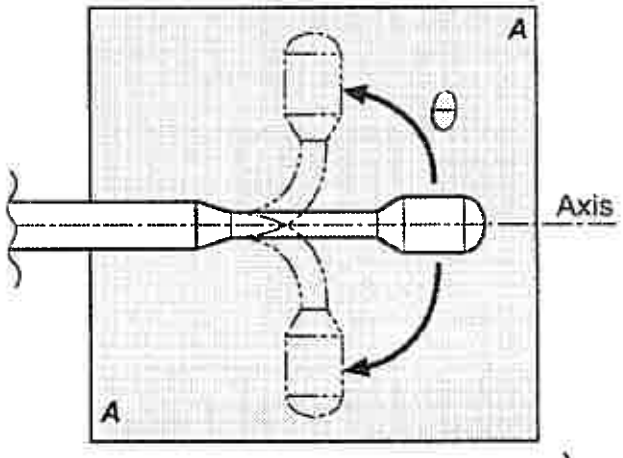
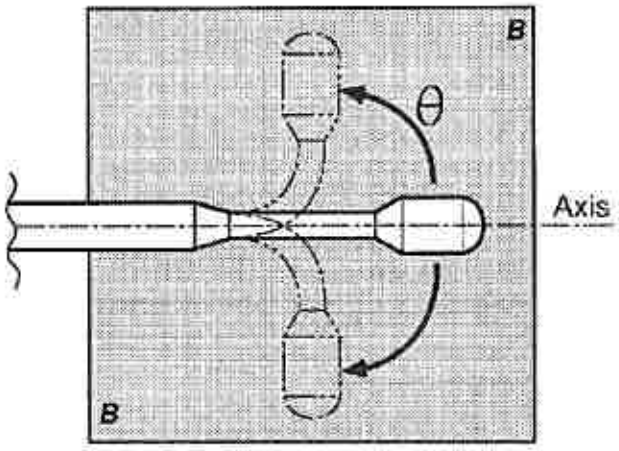


Fig. 15E

Fig. 15F



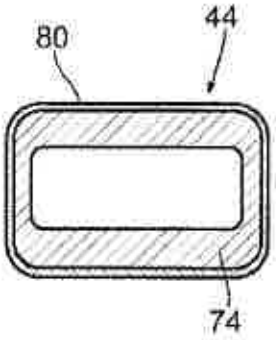


Fig. 15G

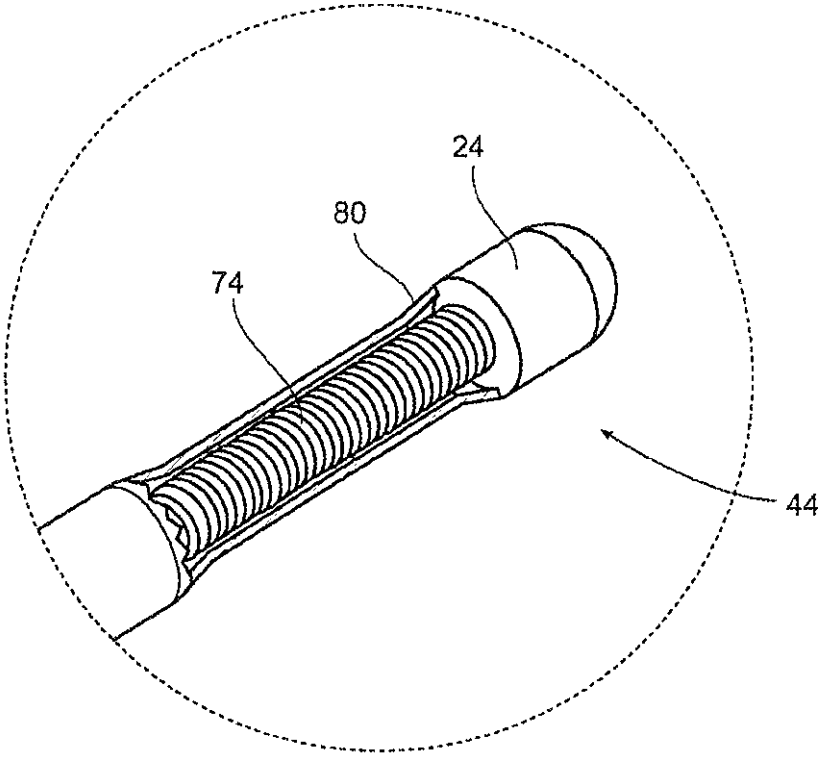


Fig. 15H

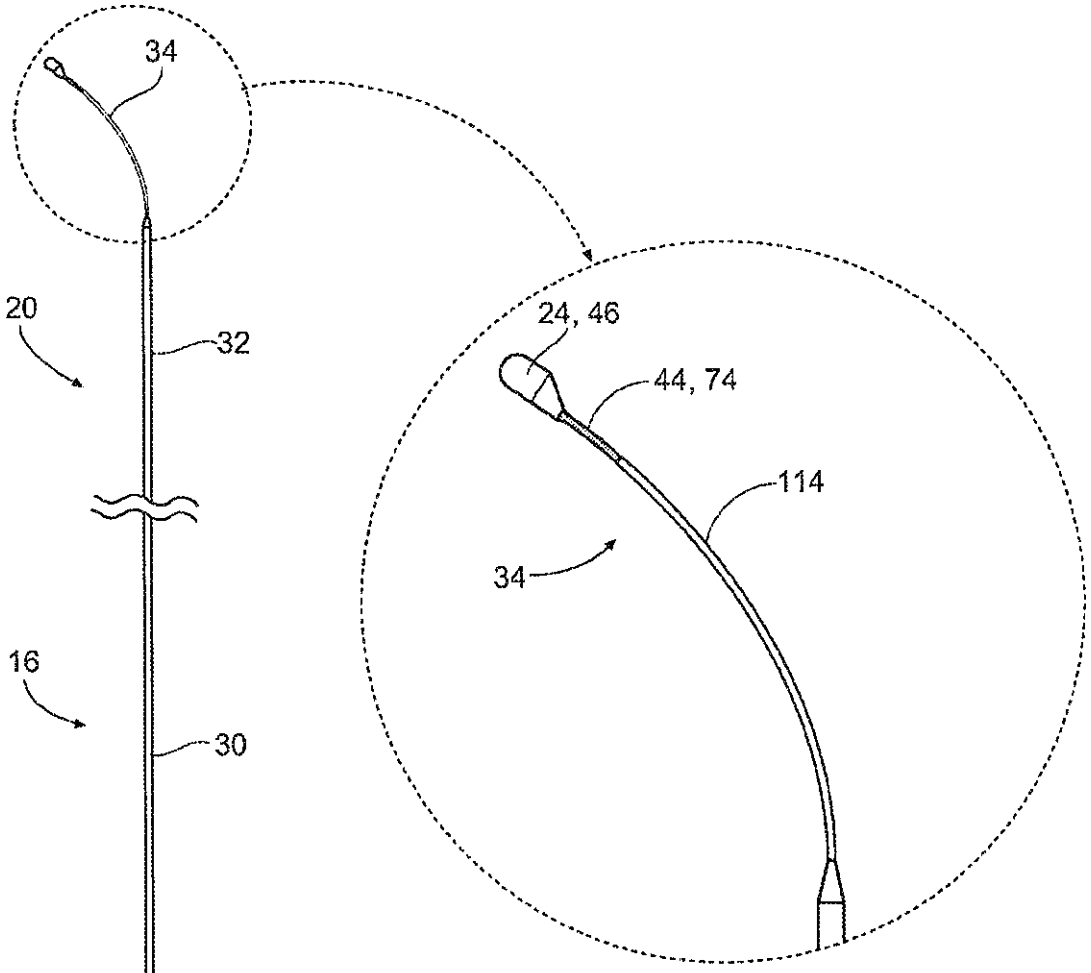


Fig. 15J

Fig. 15I

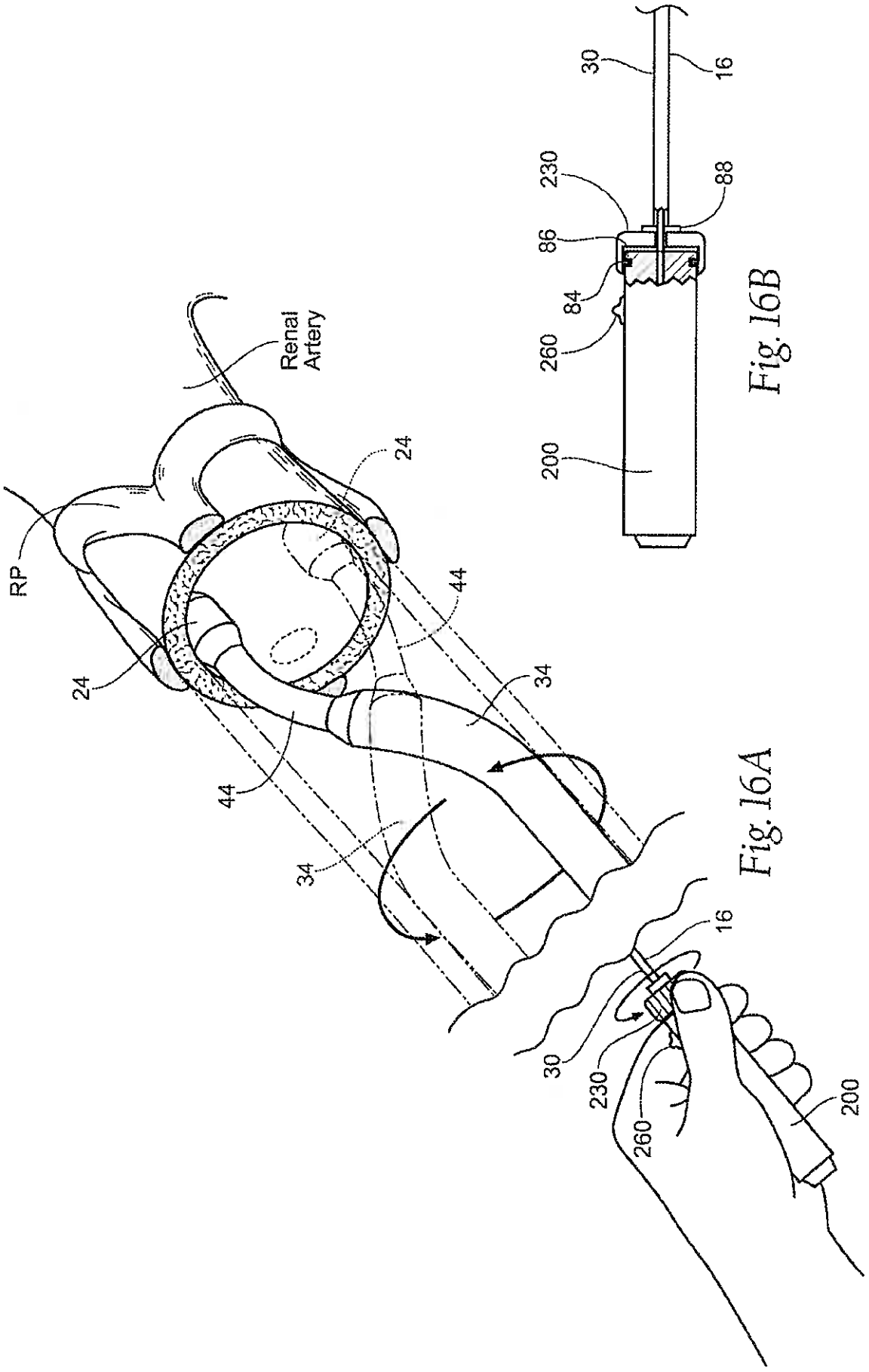


Fig. 16A

Fig. 16B

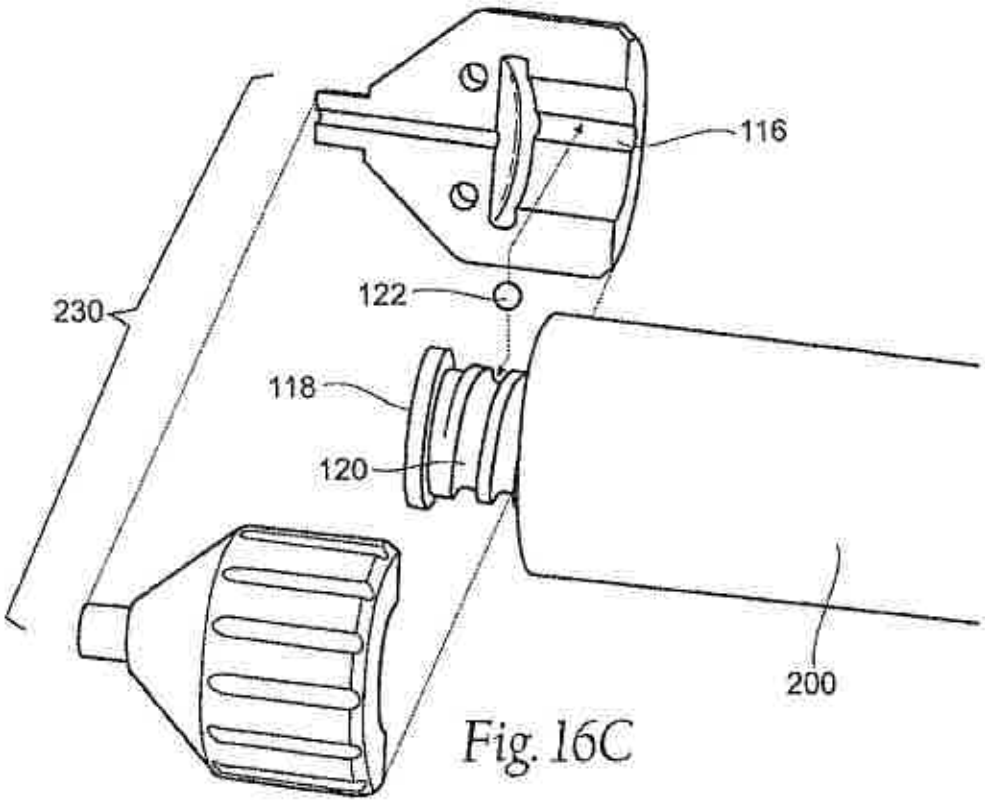


Fig. 16C

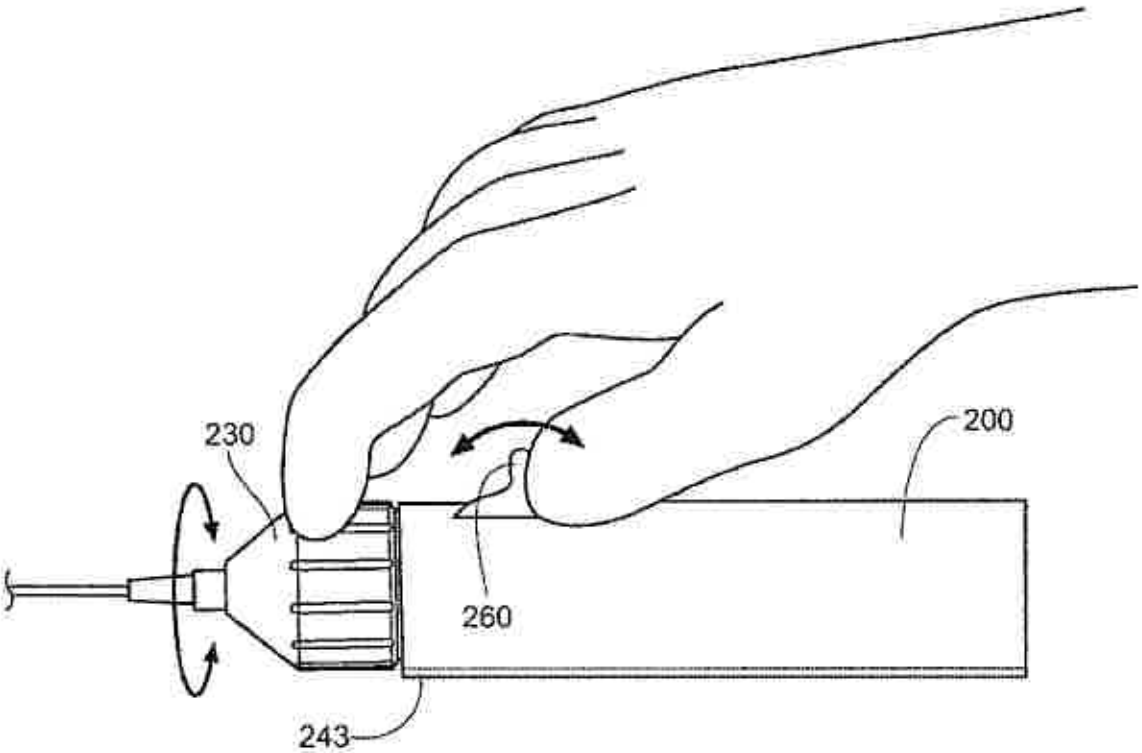


Fig. 16D

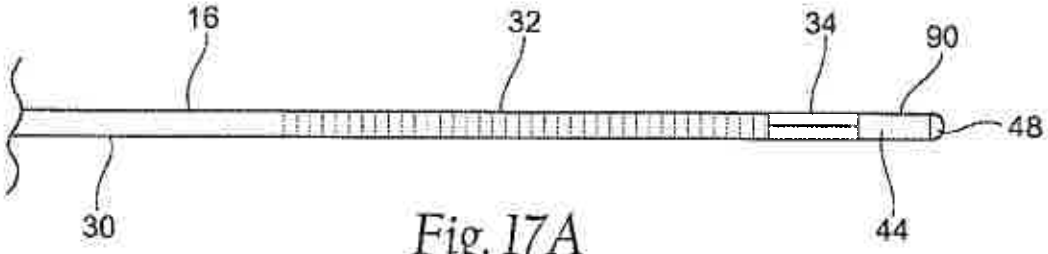


Fig. 17A

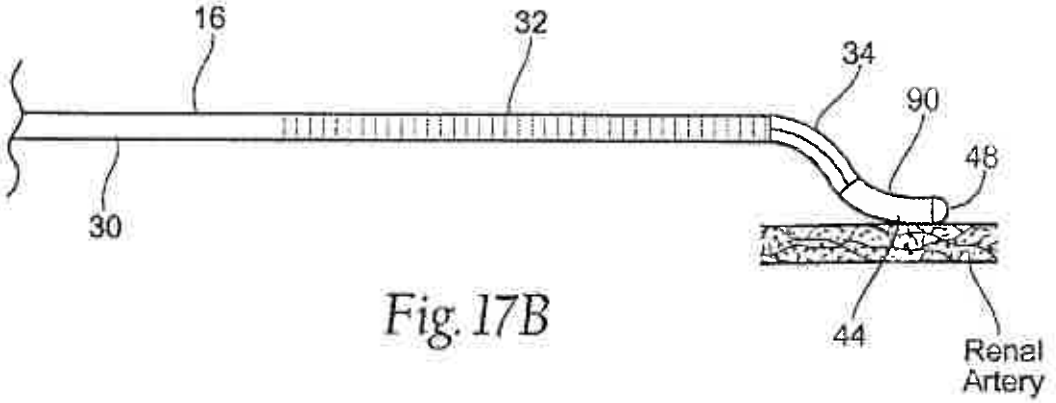


Fig. 17B

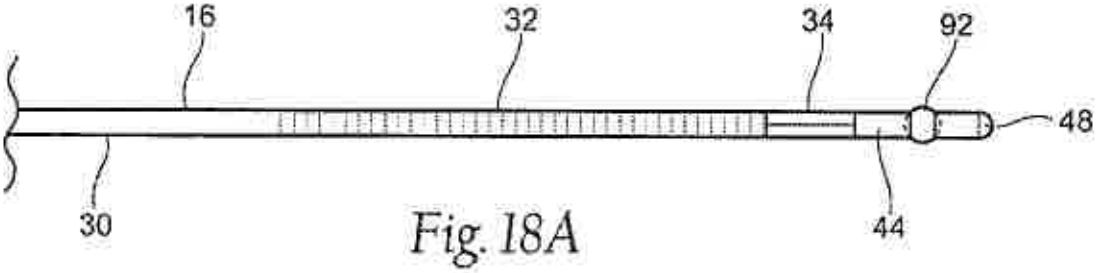


Fig. 18A

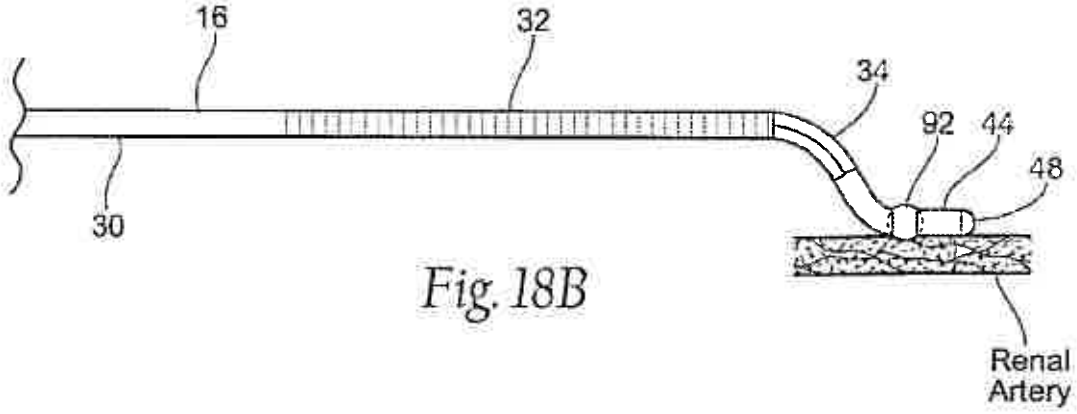


Fig. 18B

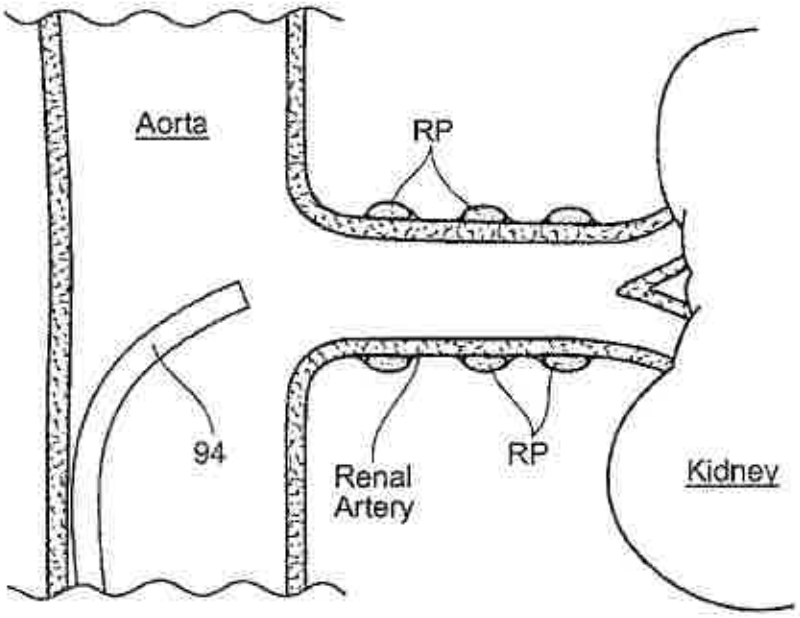


Fig. 19A

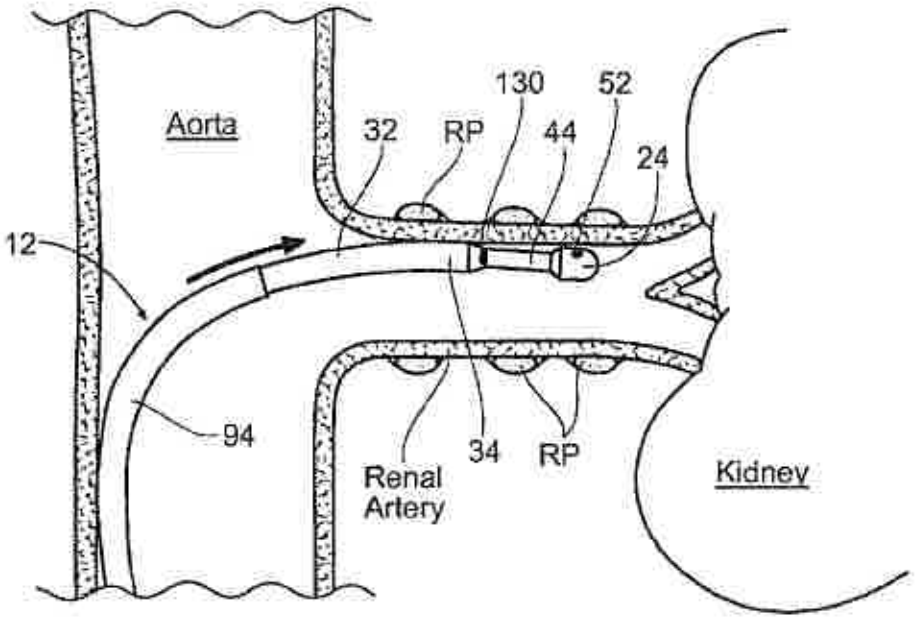


Fig. 19B

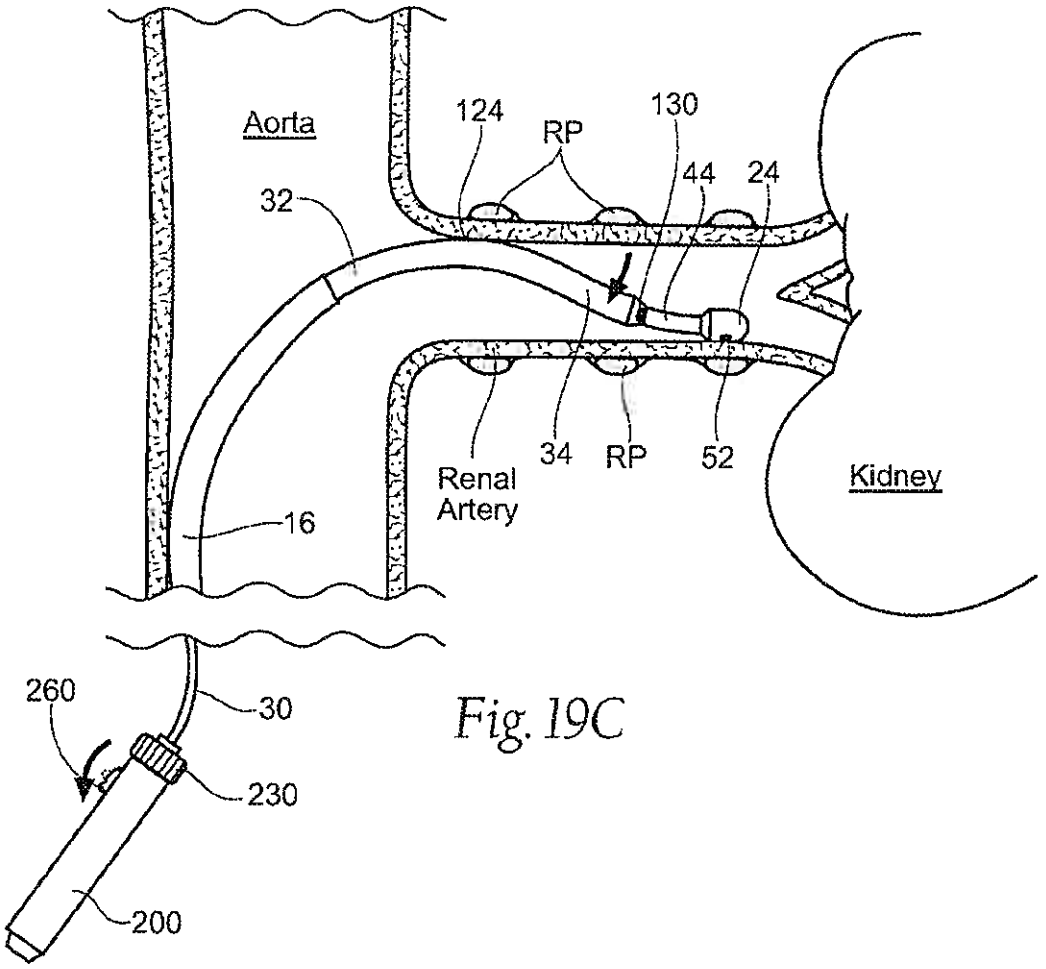


Fig. 19C

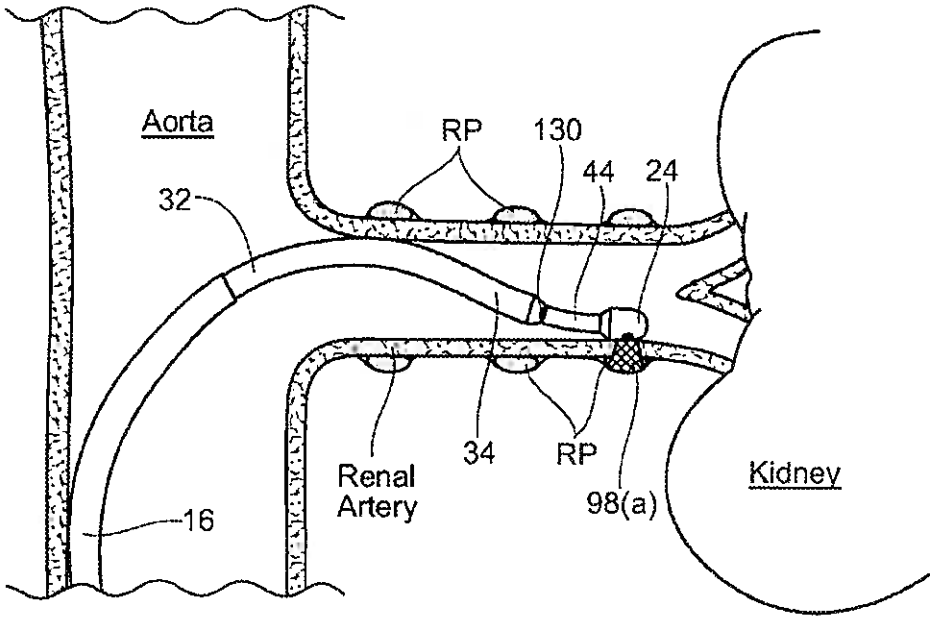


Fig. 19D

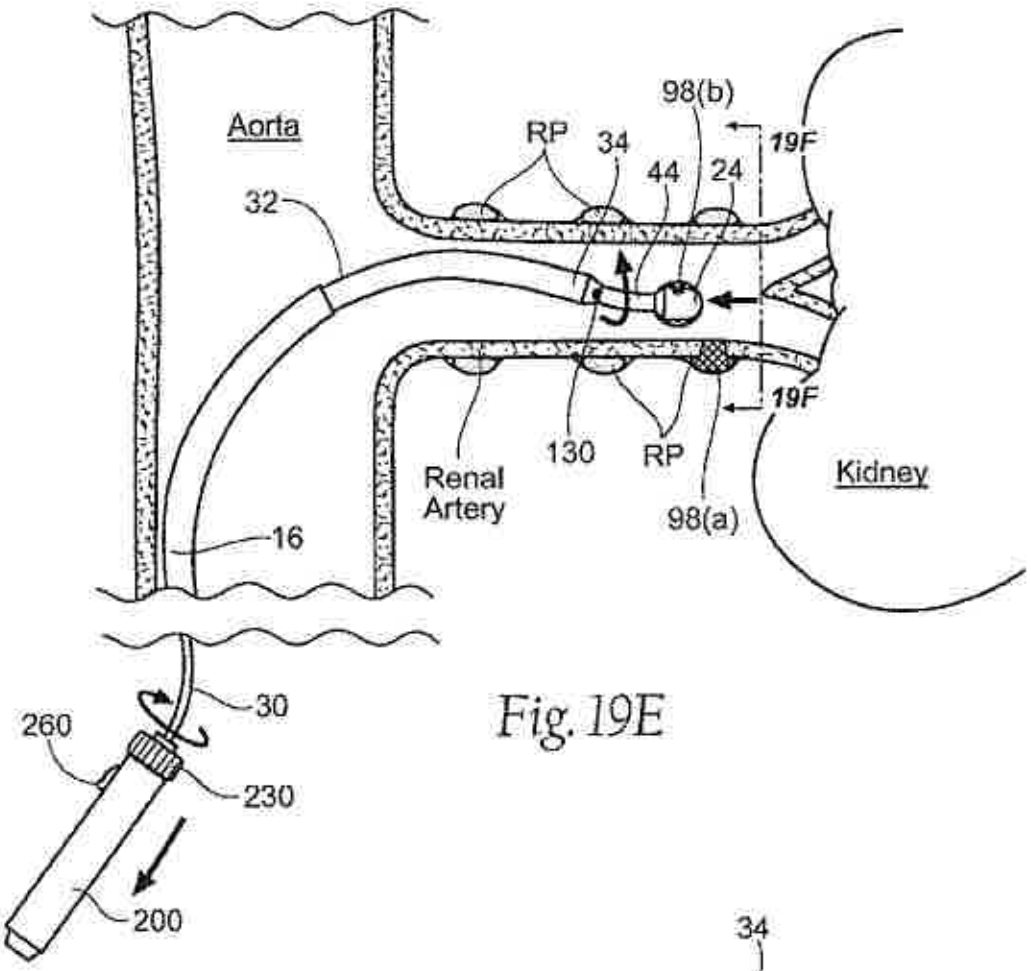


Fig. 19E

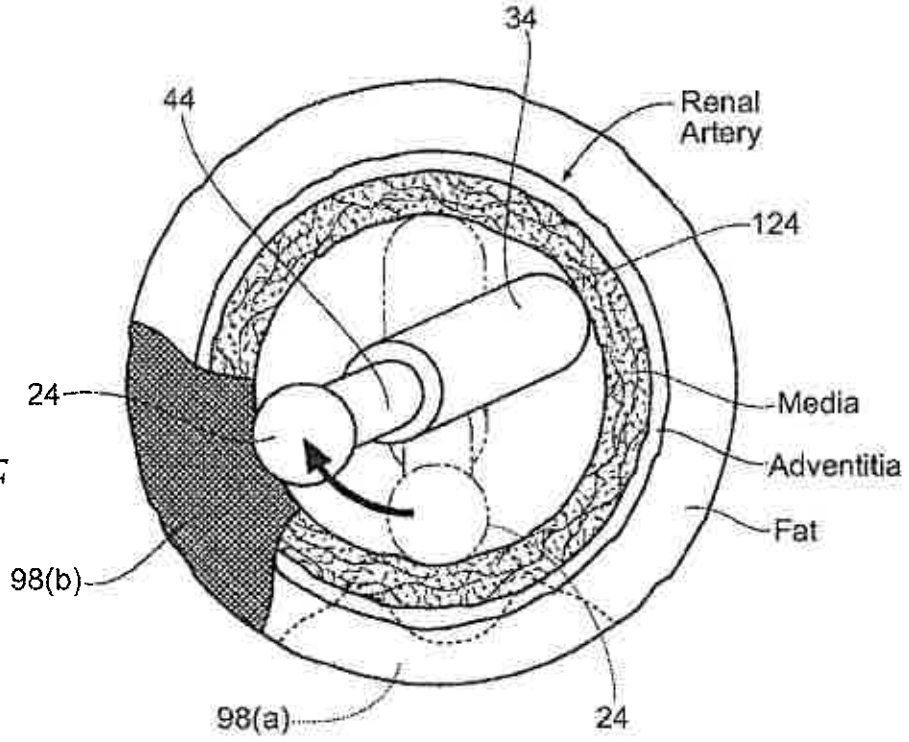


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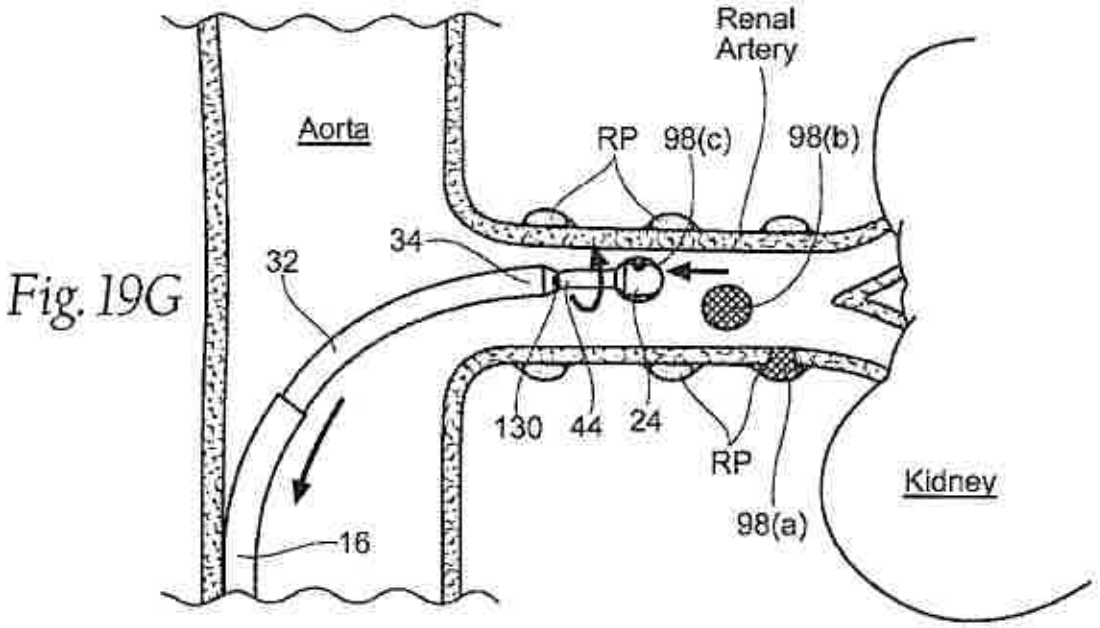


Fig. 19G

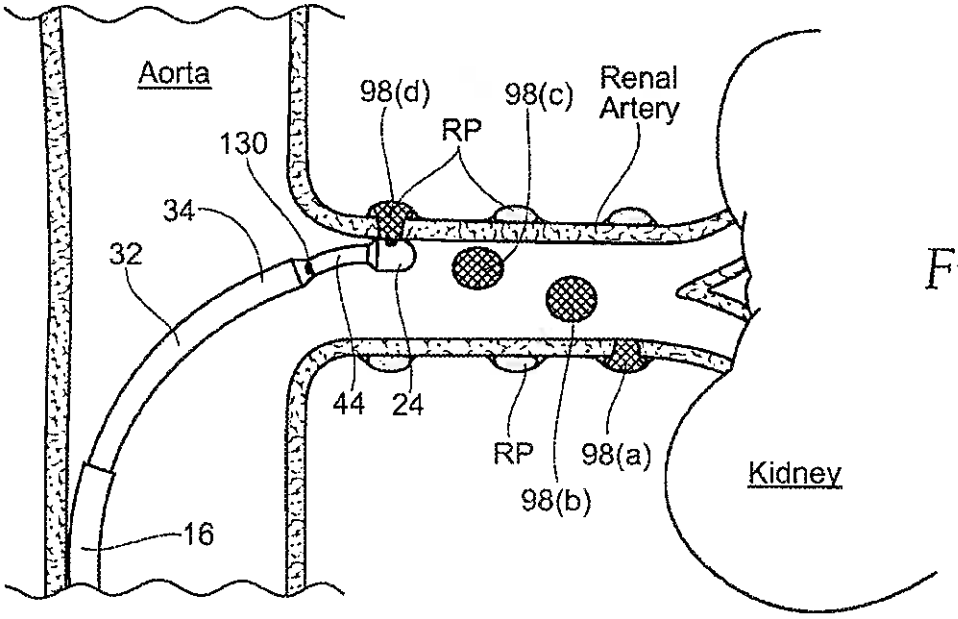


Fig. 19H

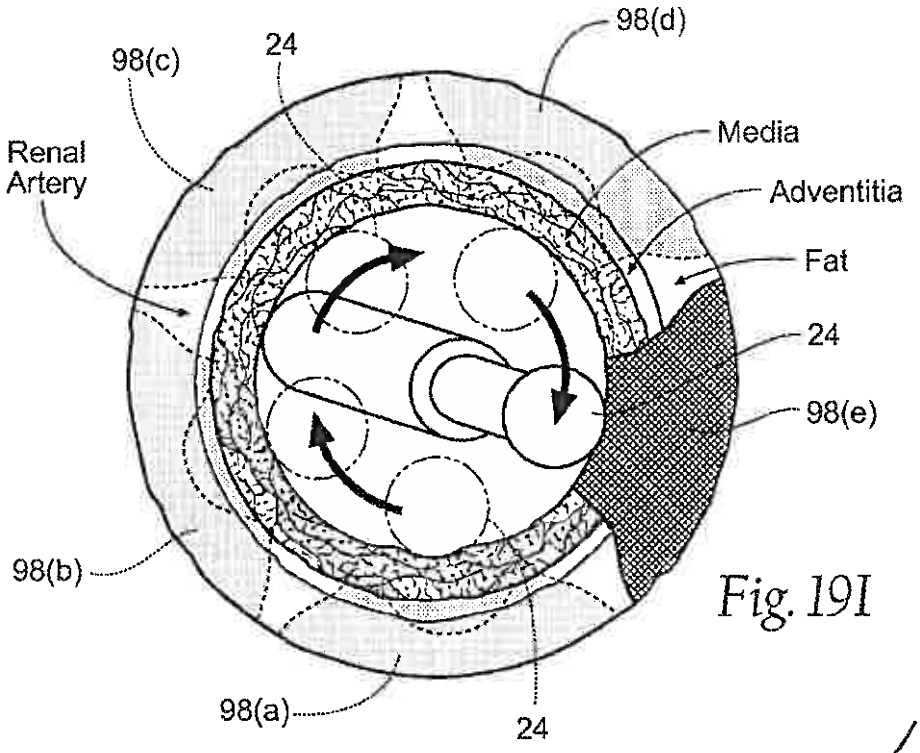


Fig. 19I

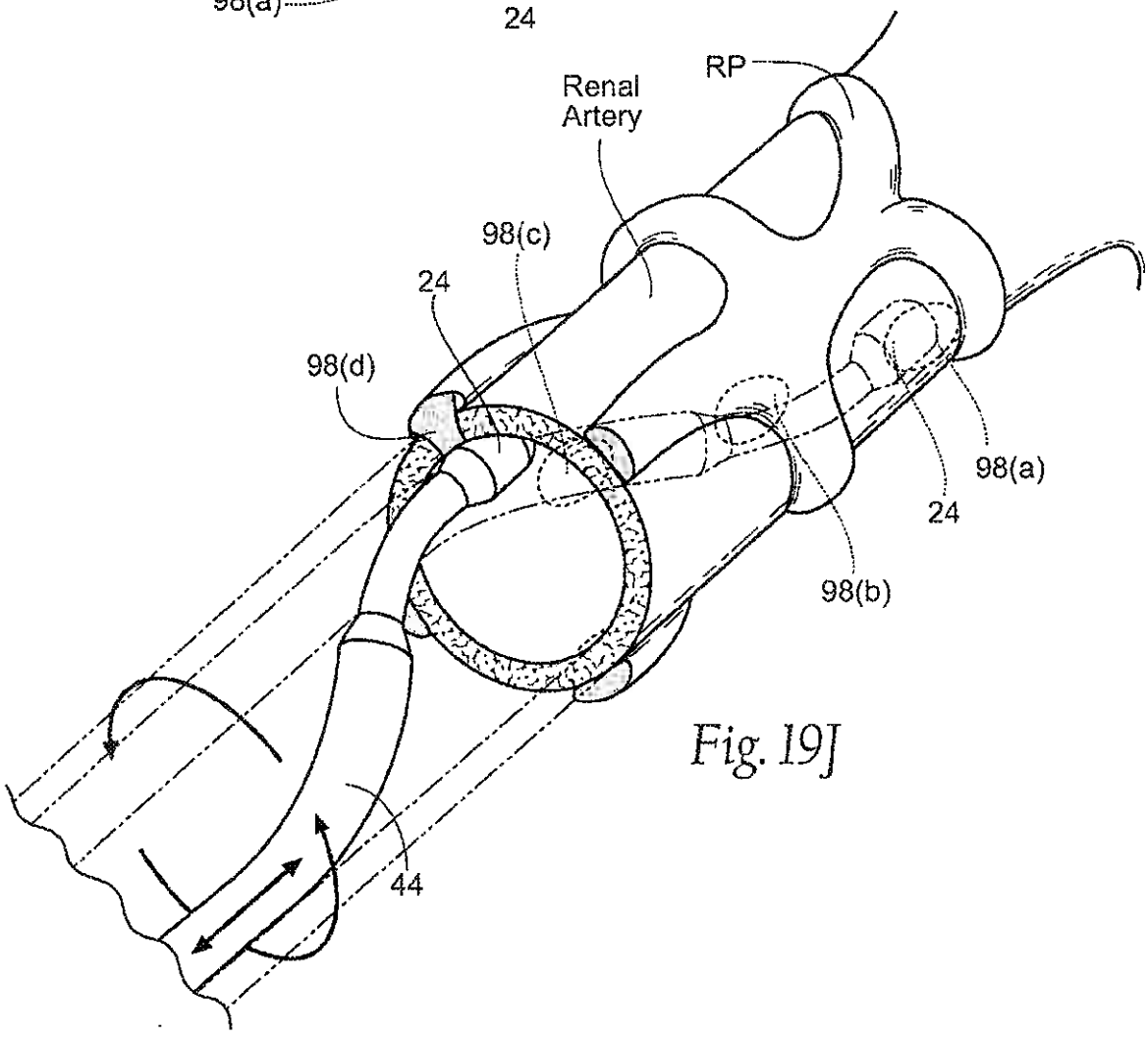


Fig. 19J

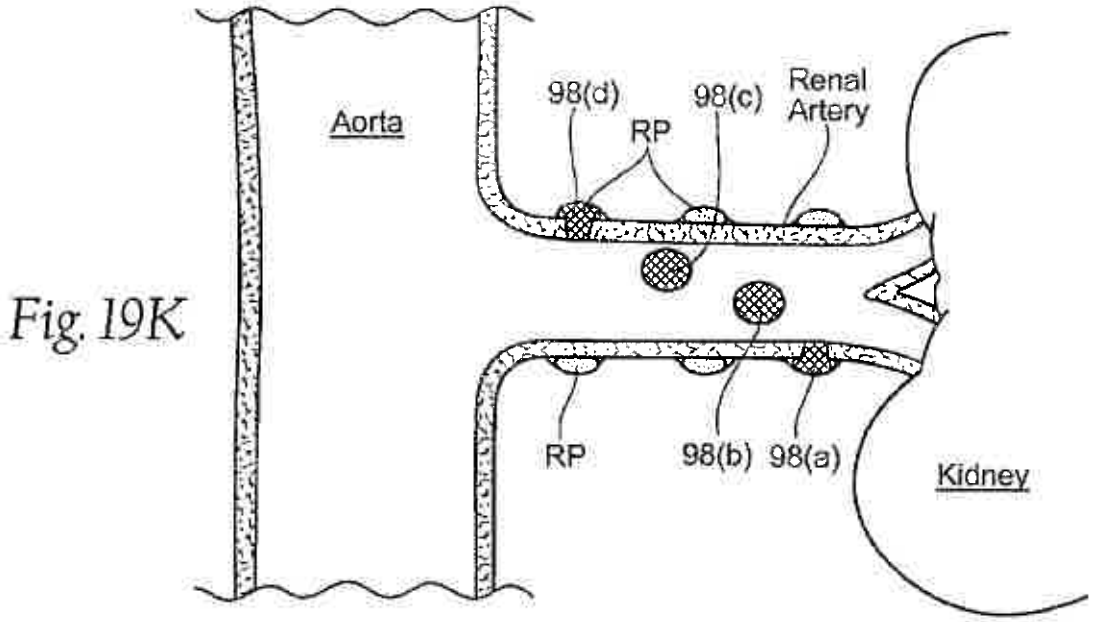


Fig. 19K

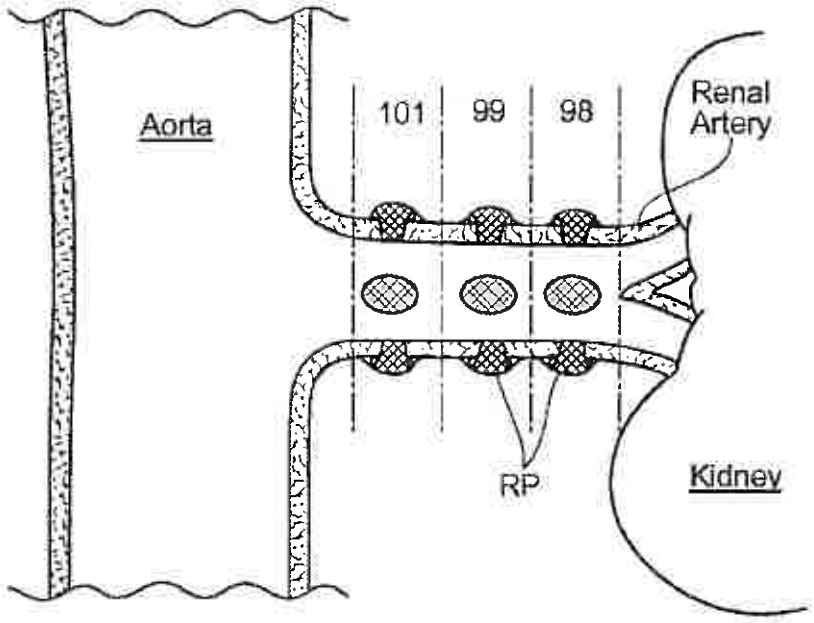


Fig. 19L

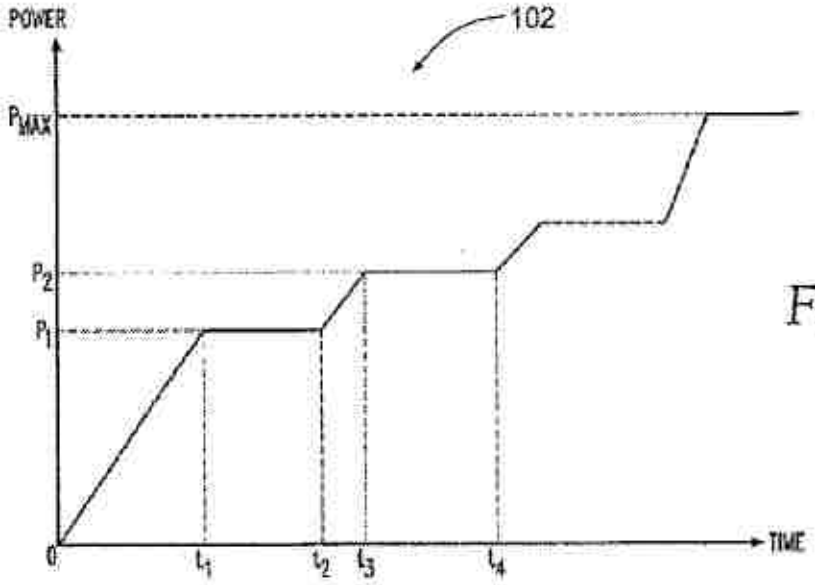

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P_2
P_1
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t_1
t_2
t_3
t_4
TIME

Fig. 20

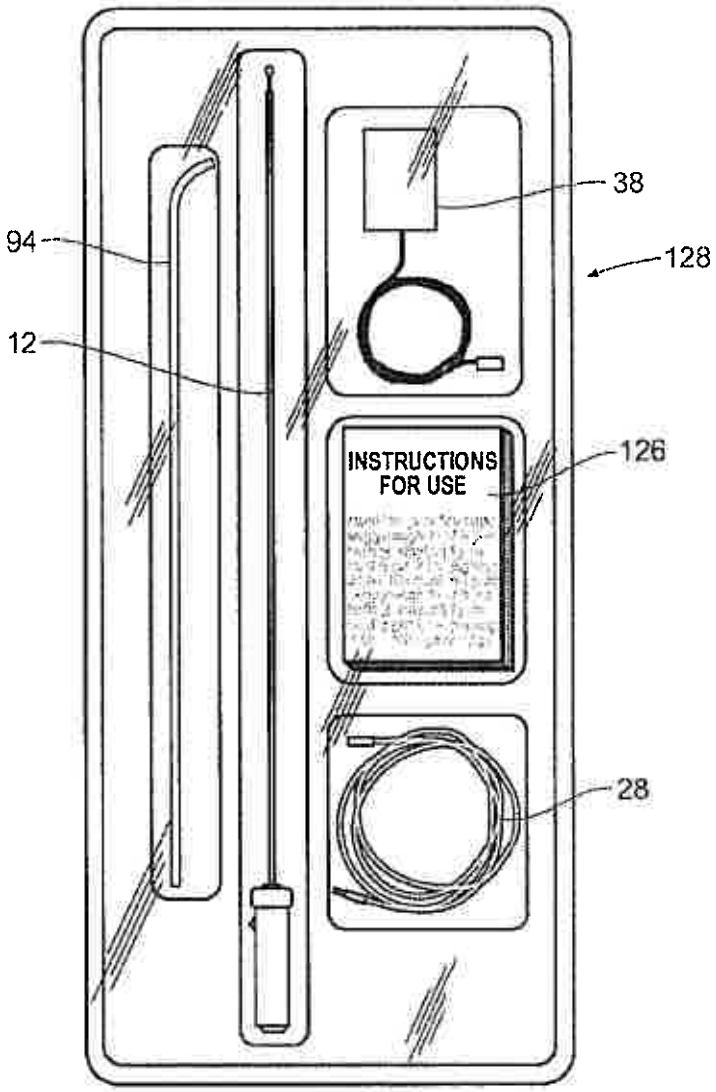

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94
128
12
INSTRUCTIONS FOR USE
126
28

Fig. 21

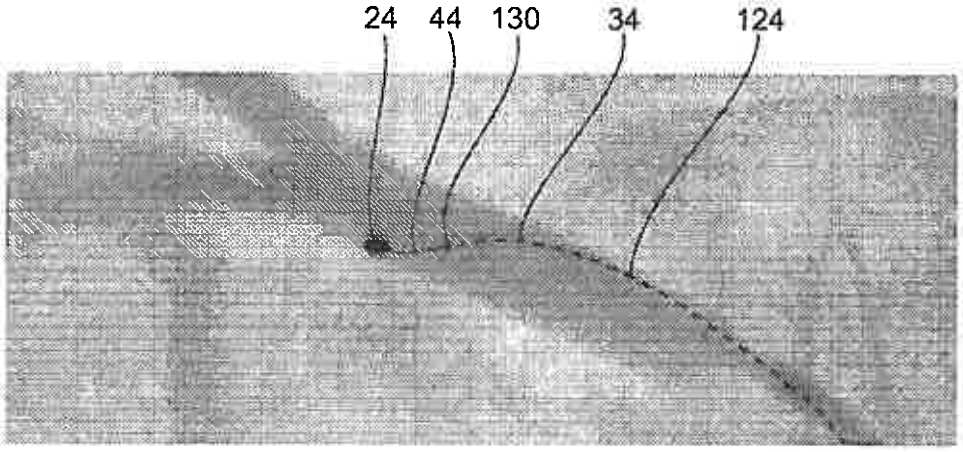


Fig. 22A

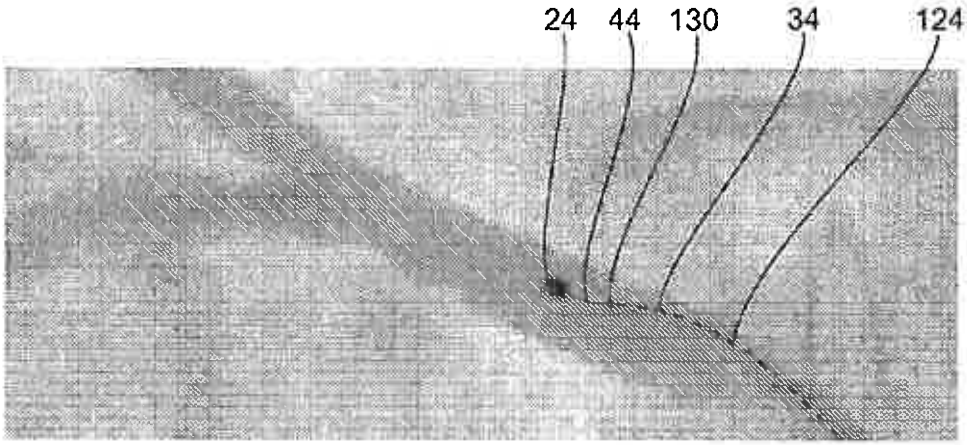


Fig. 22B

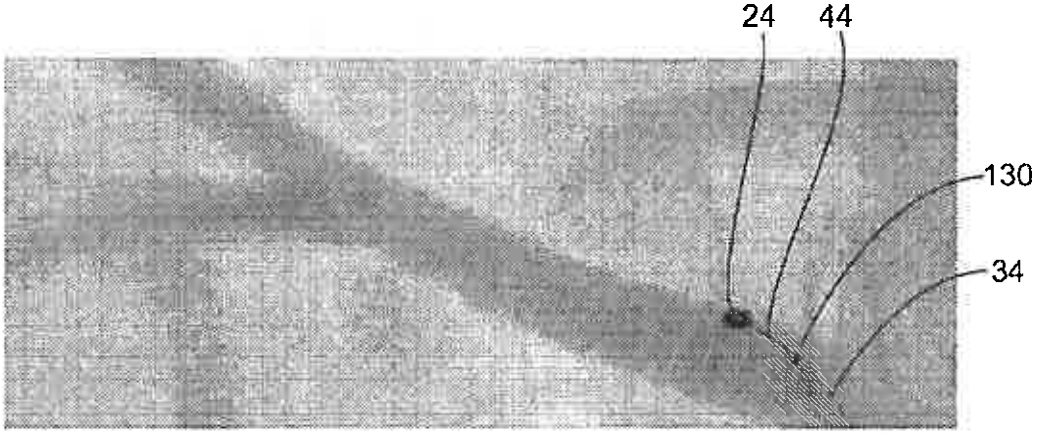


Fig. 22C

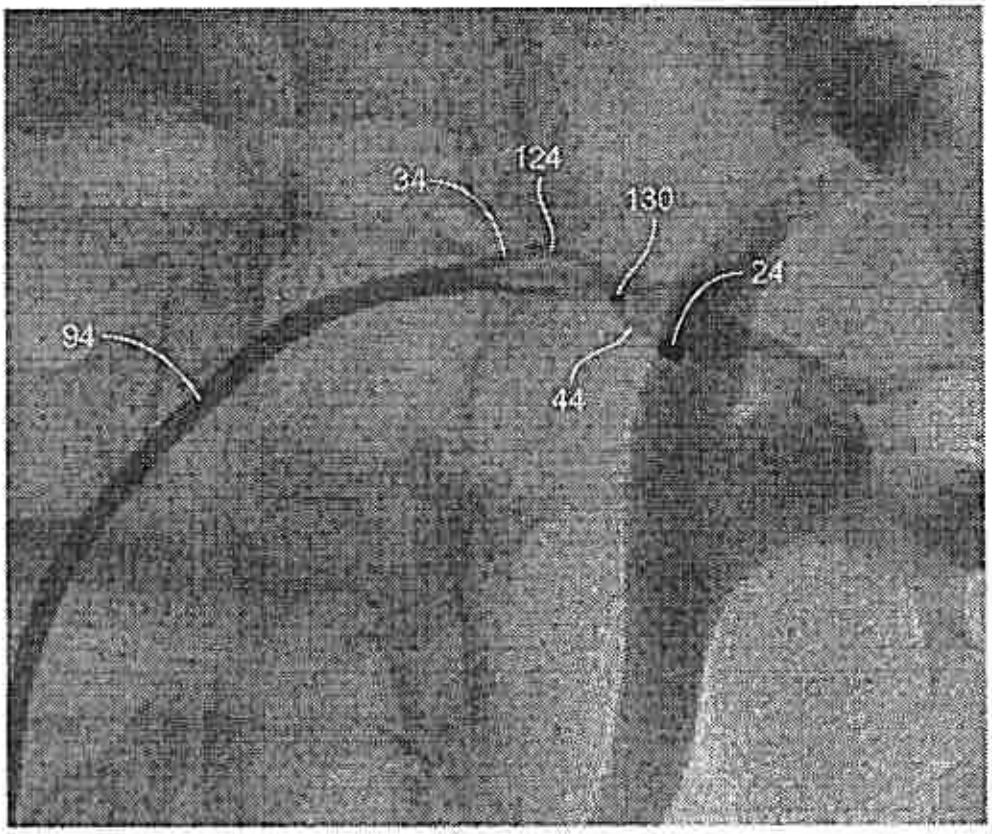


Fig. 22D

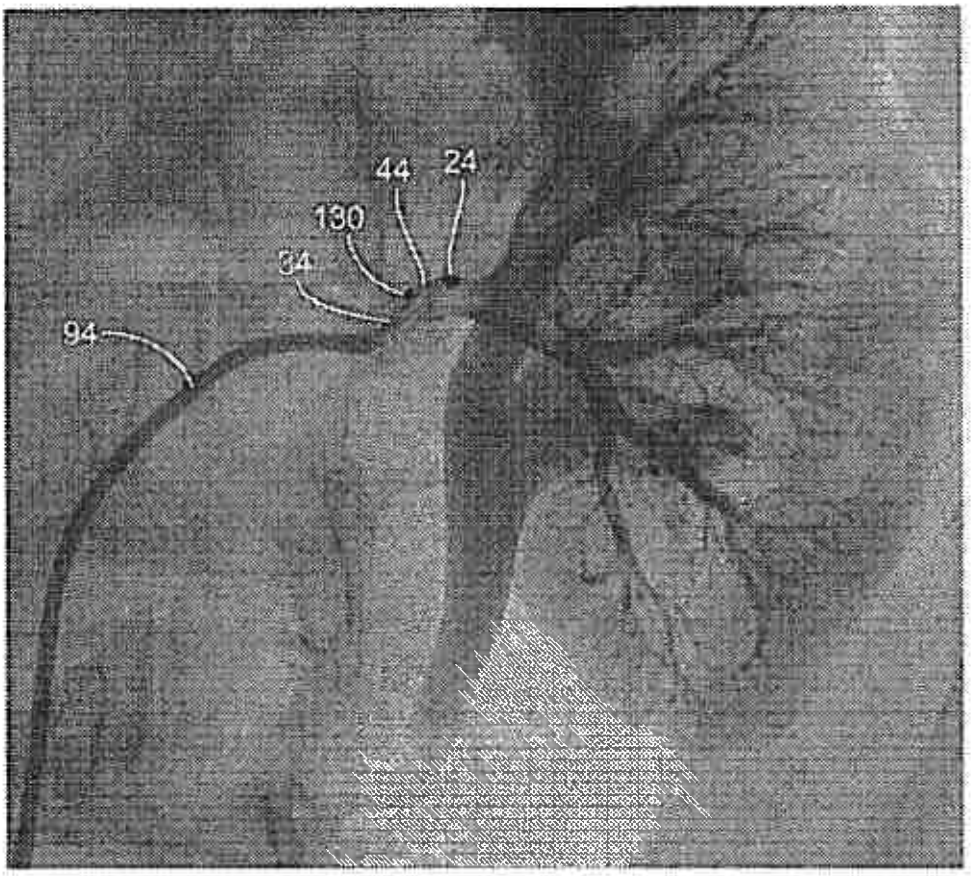


Fig. 22E

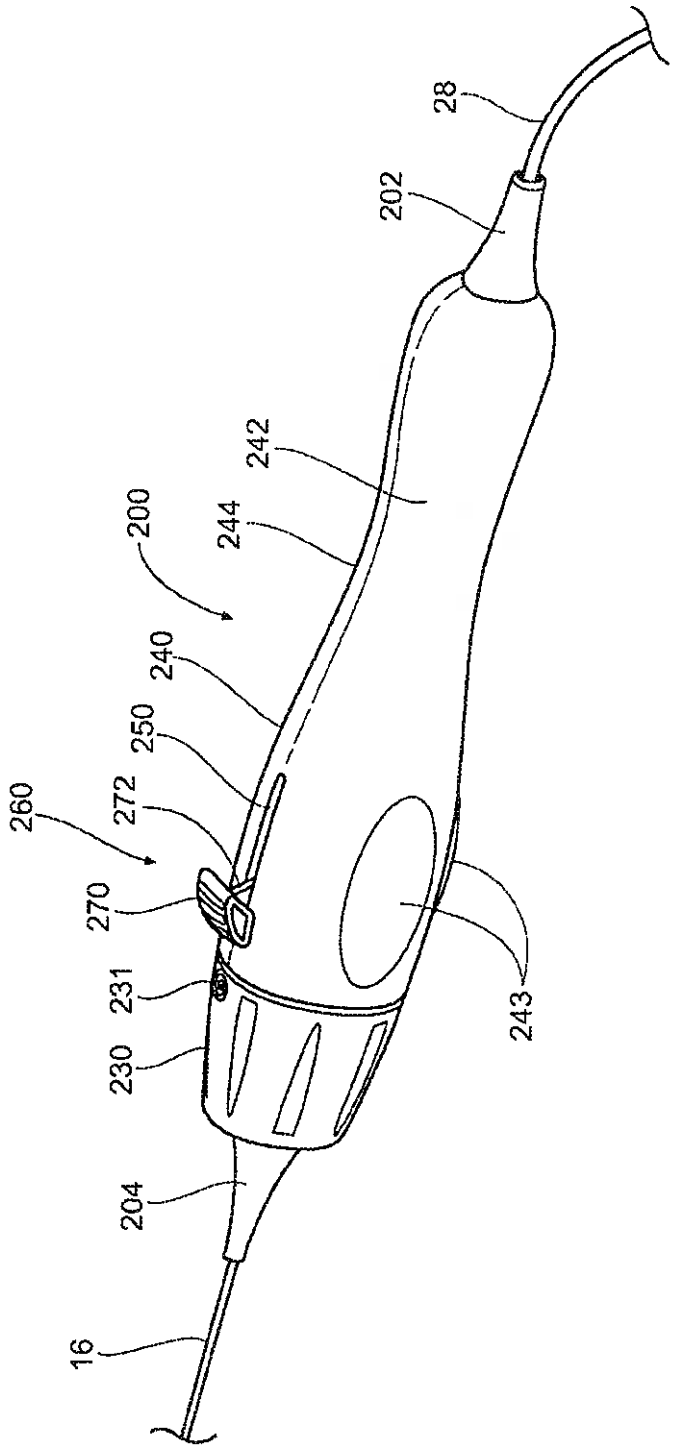


Fig. 23

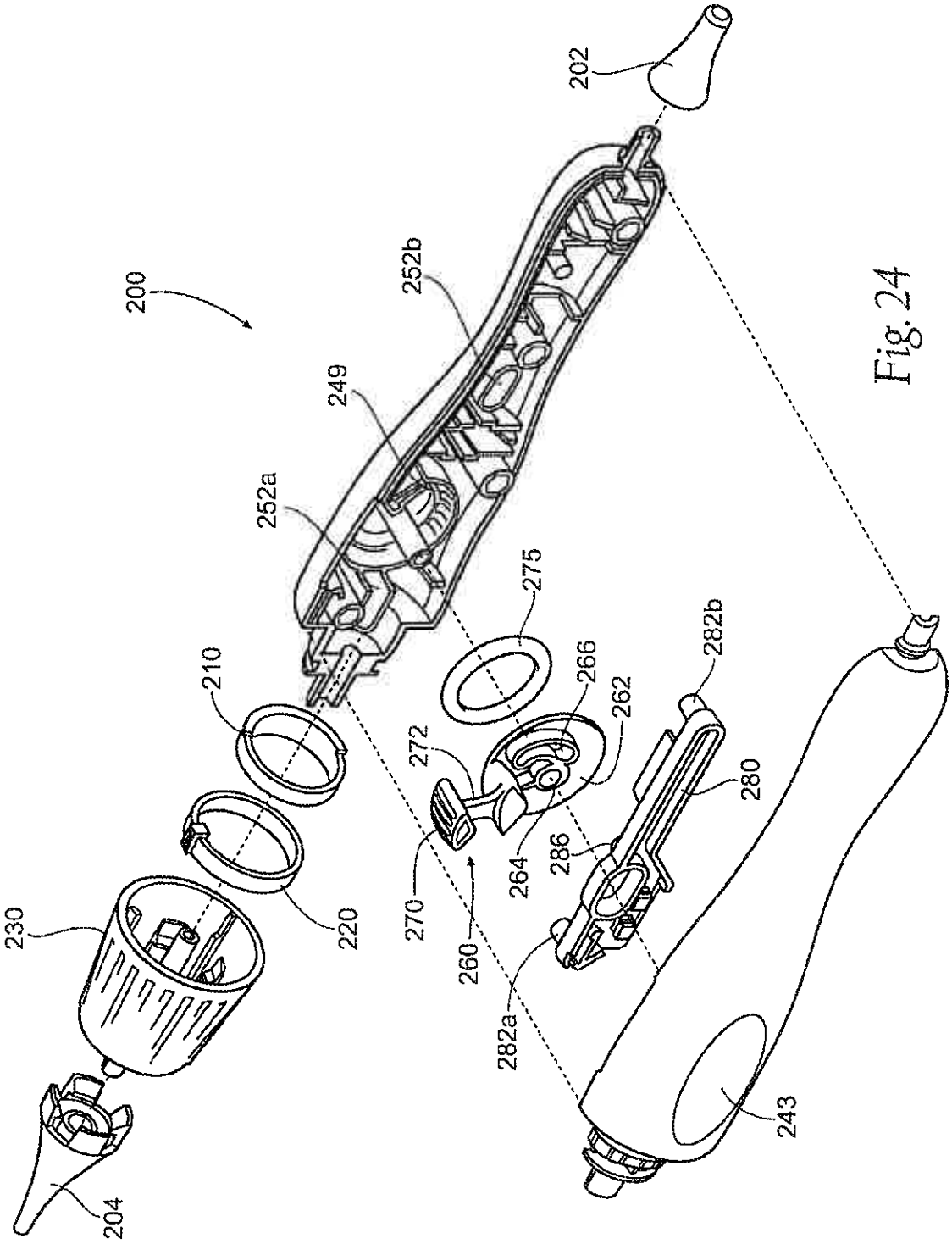

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Fig. 24

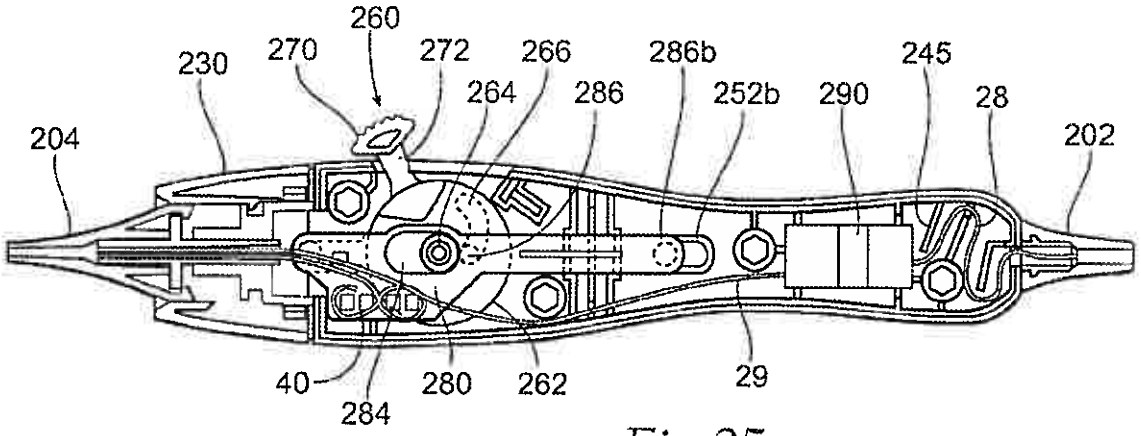


Fig. 25

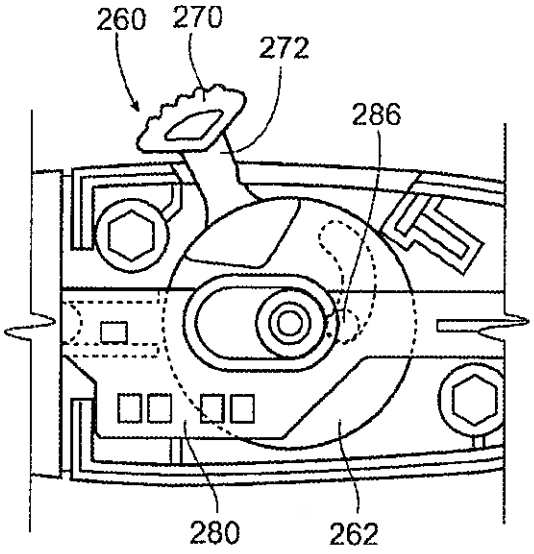


Fig. 26A

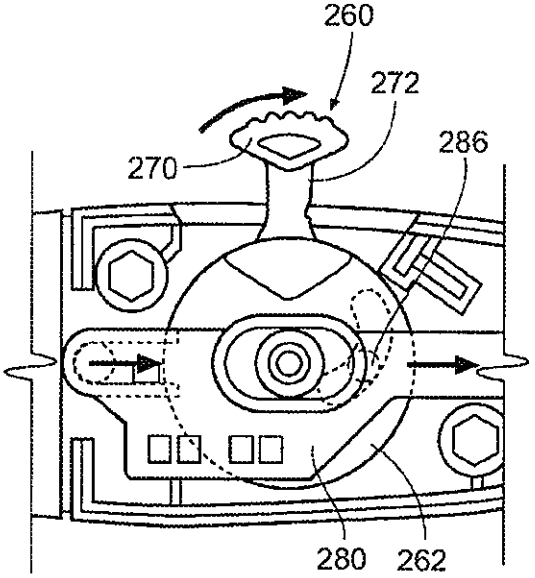


Fig. 26B

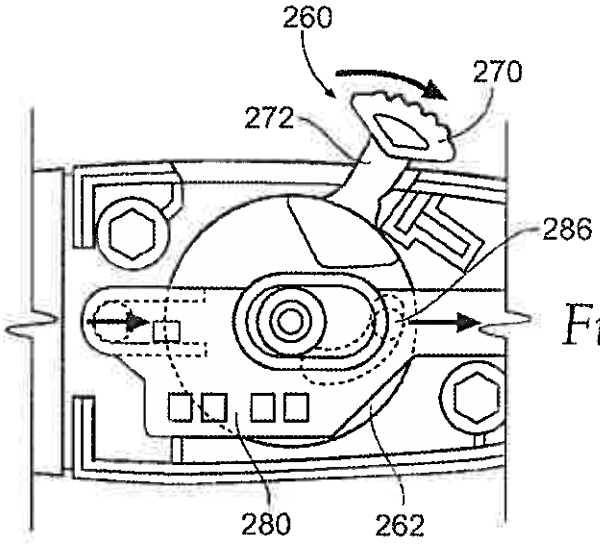


Fig. 26C

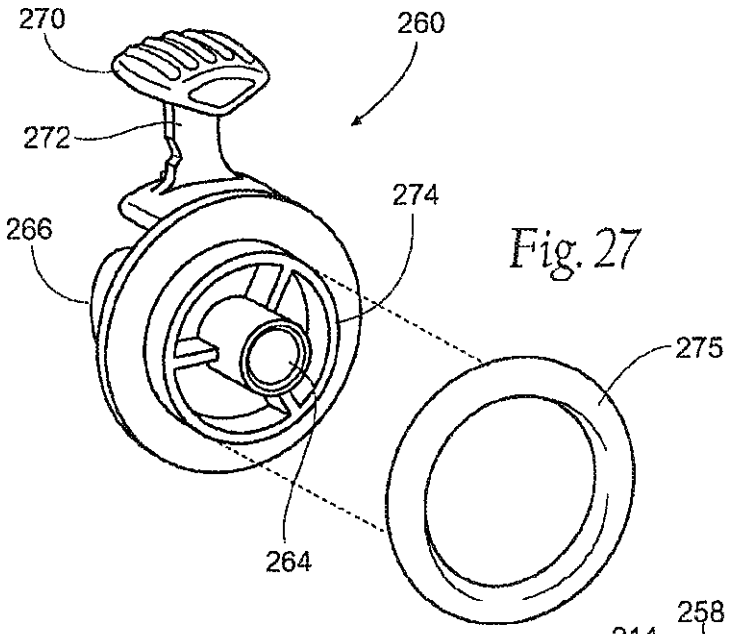


Fig. 27

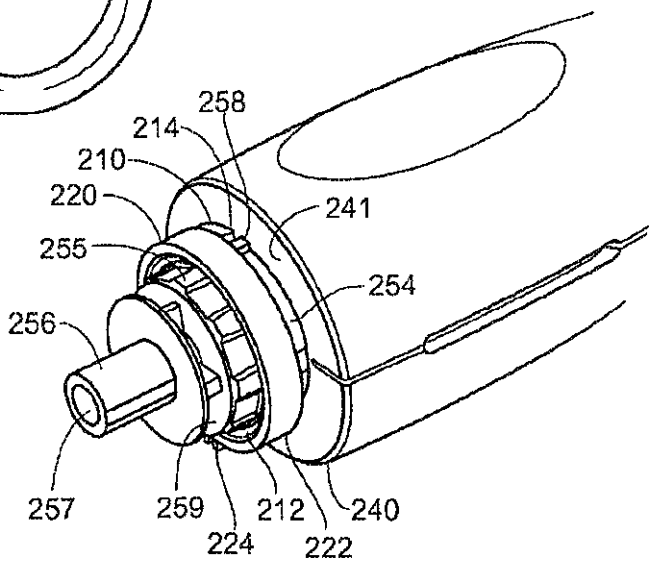


Fig. 28

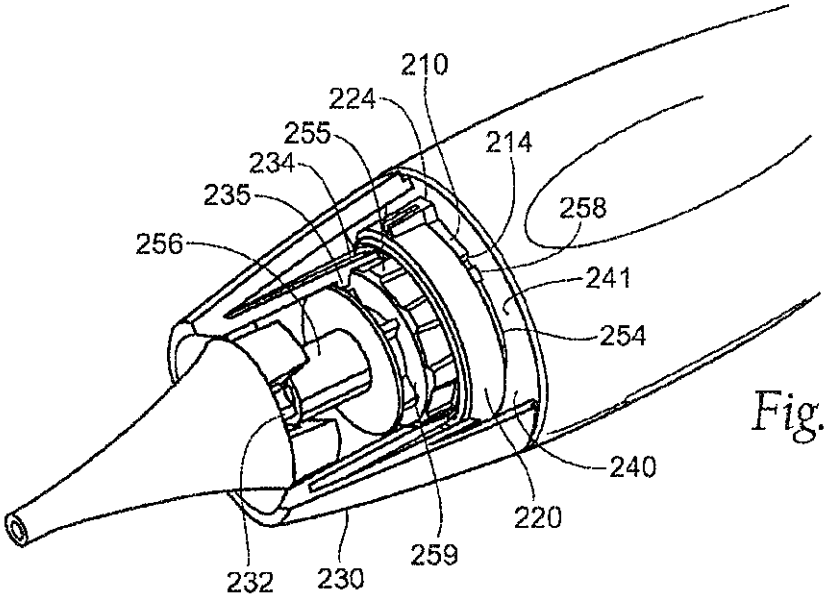


Fig. 29