

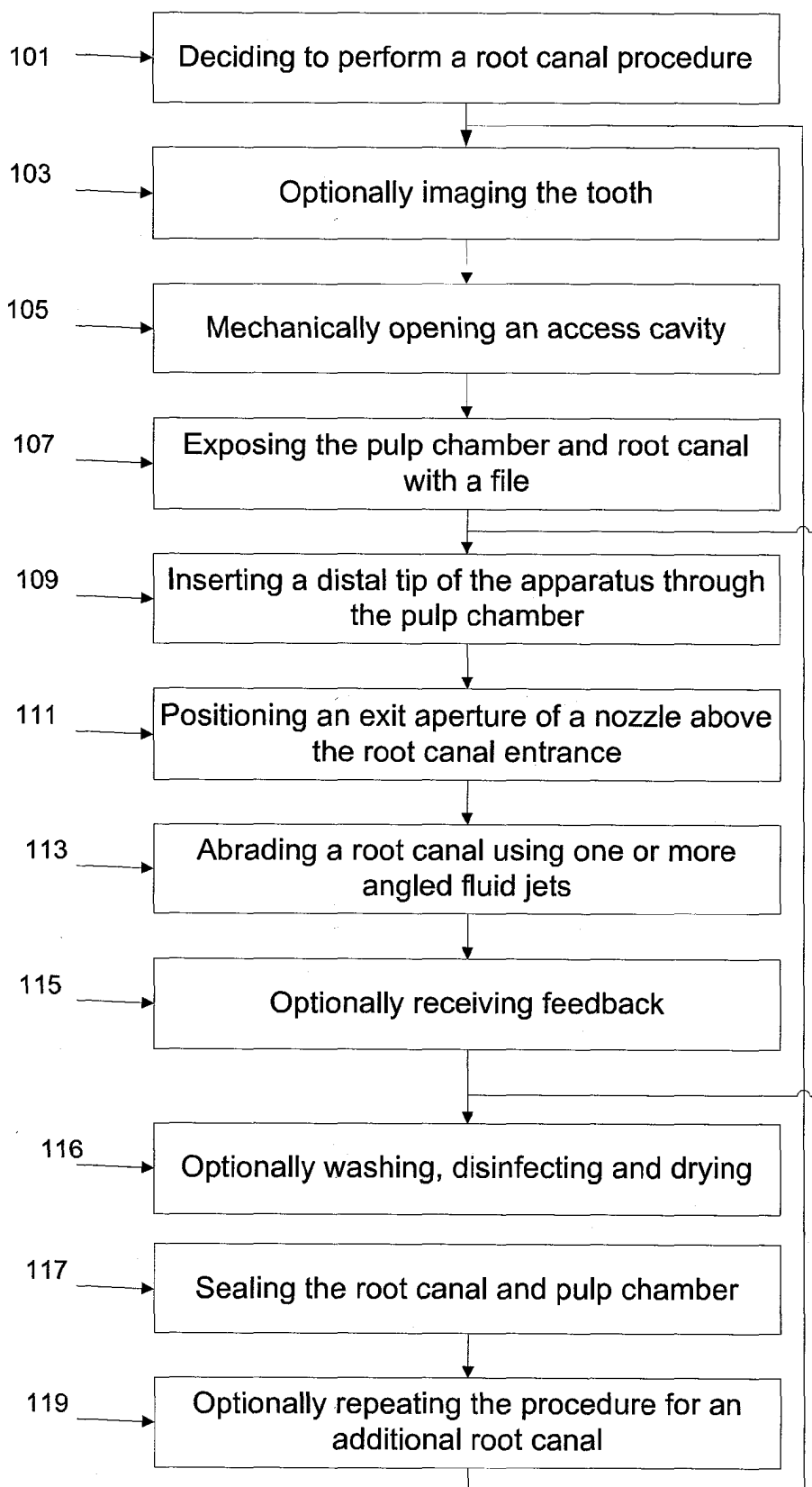


FIG. 1

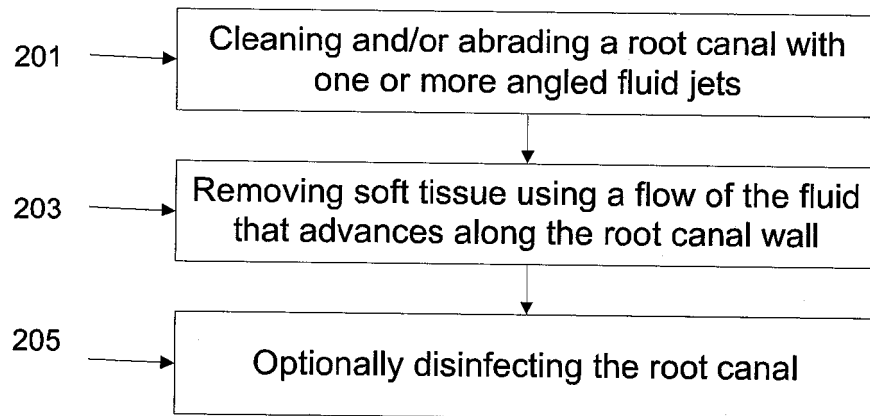


FIG. 2

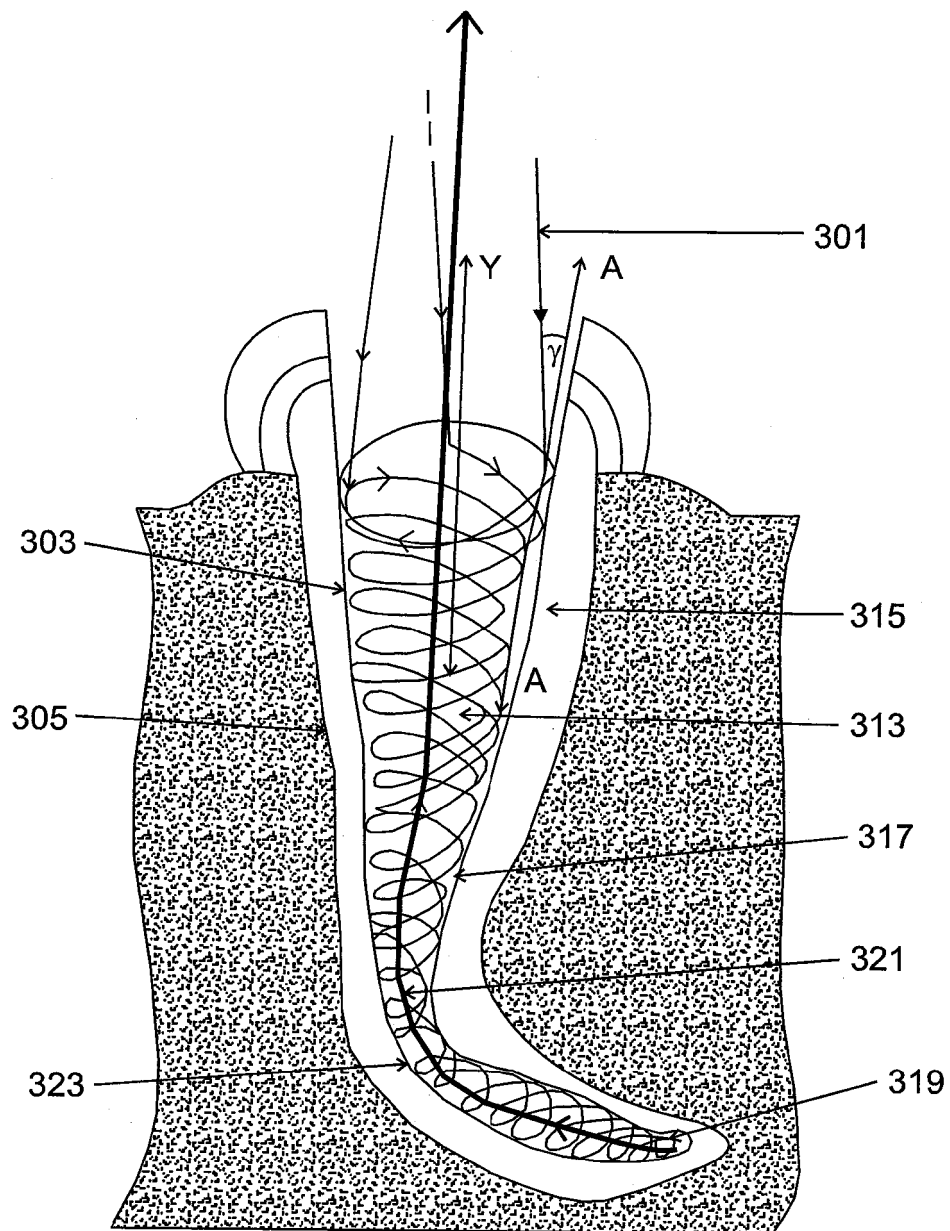


FIG. 3

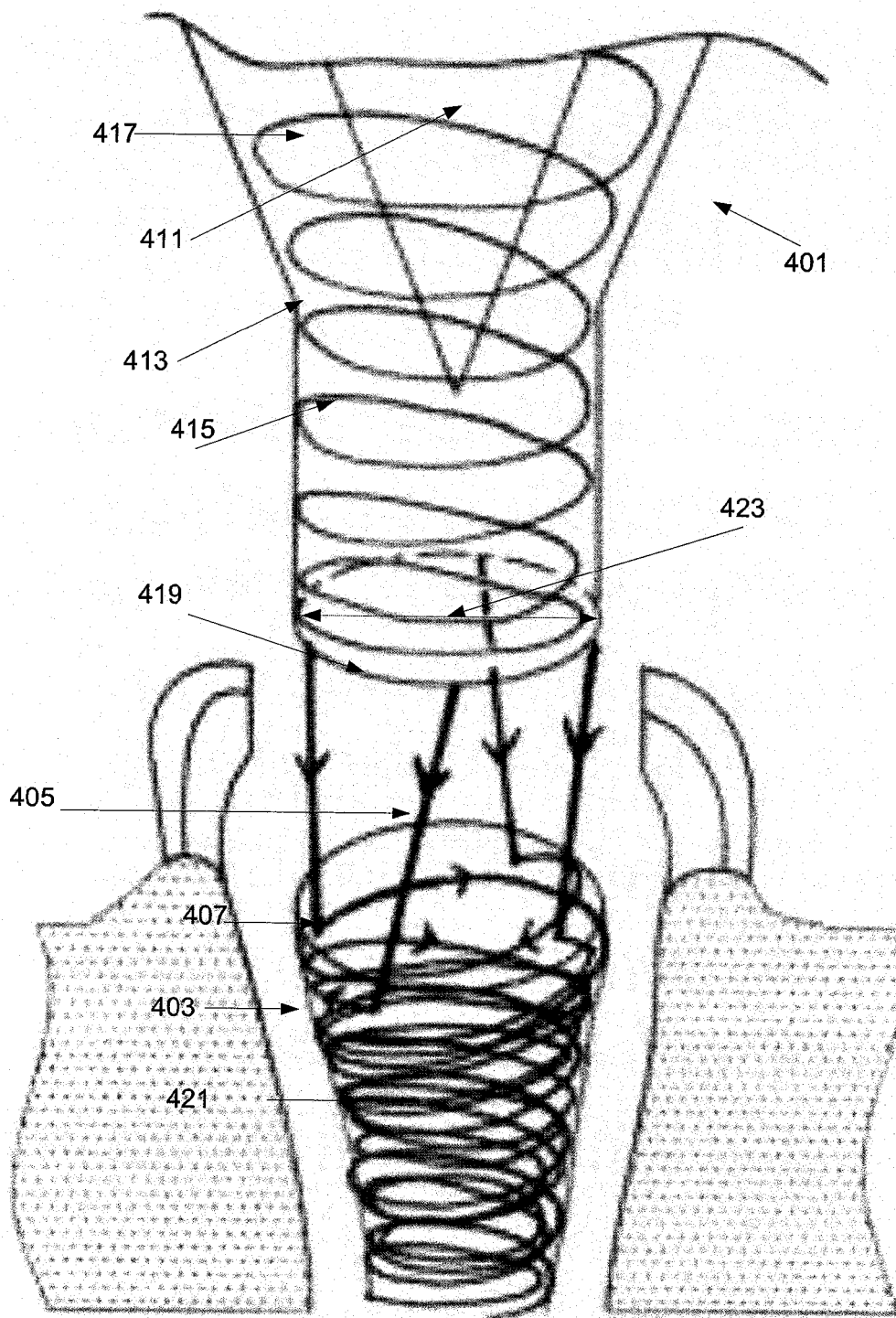


FIG. 4A

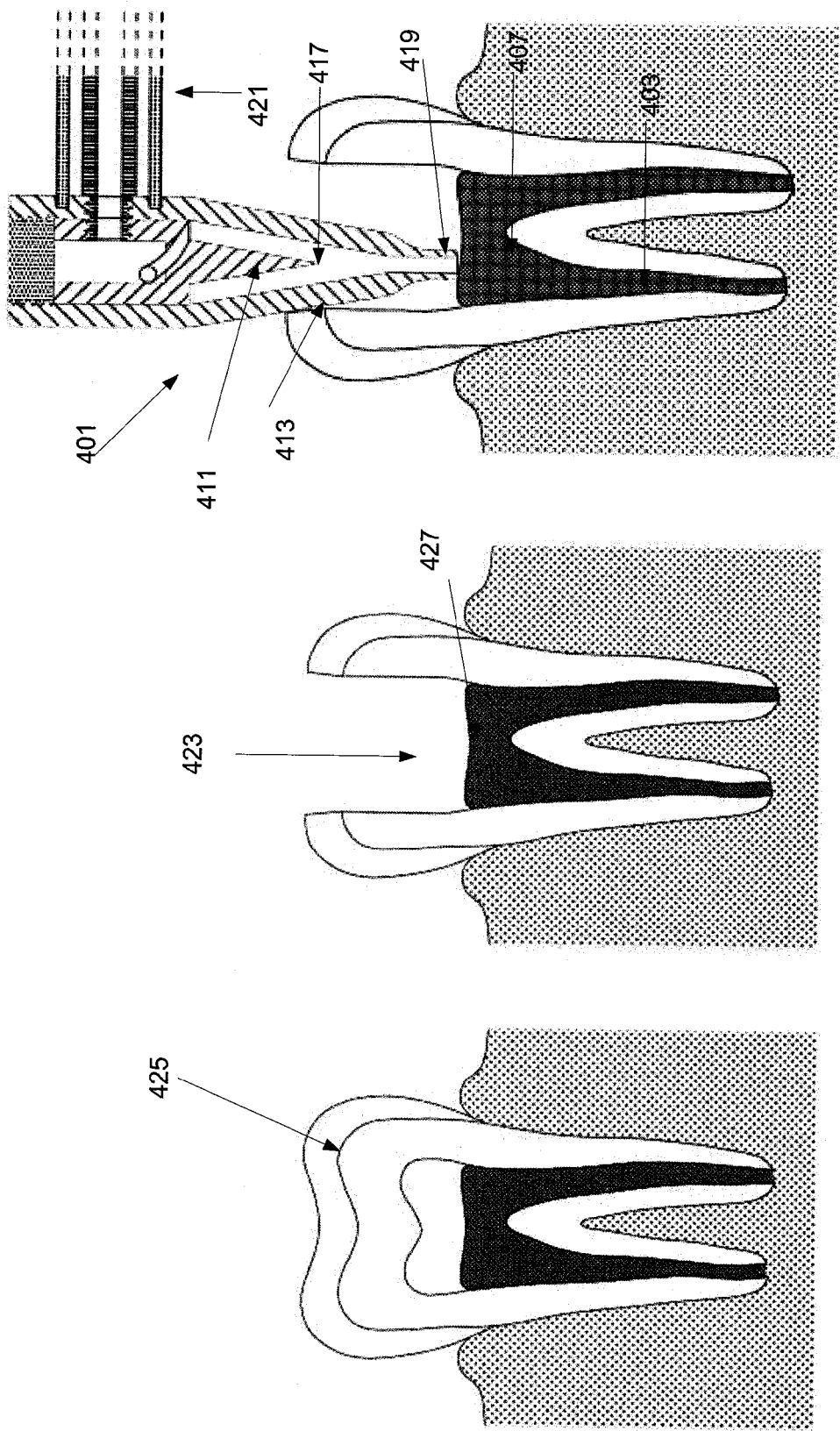


FIG. 4B

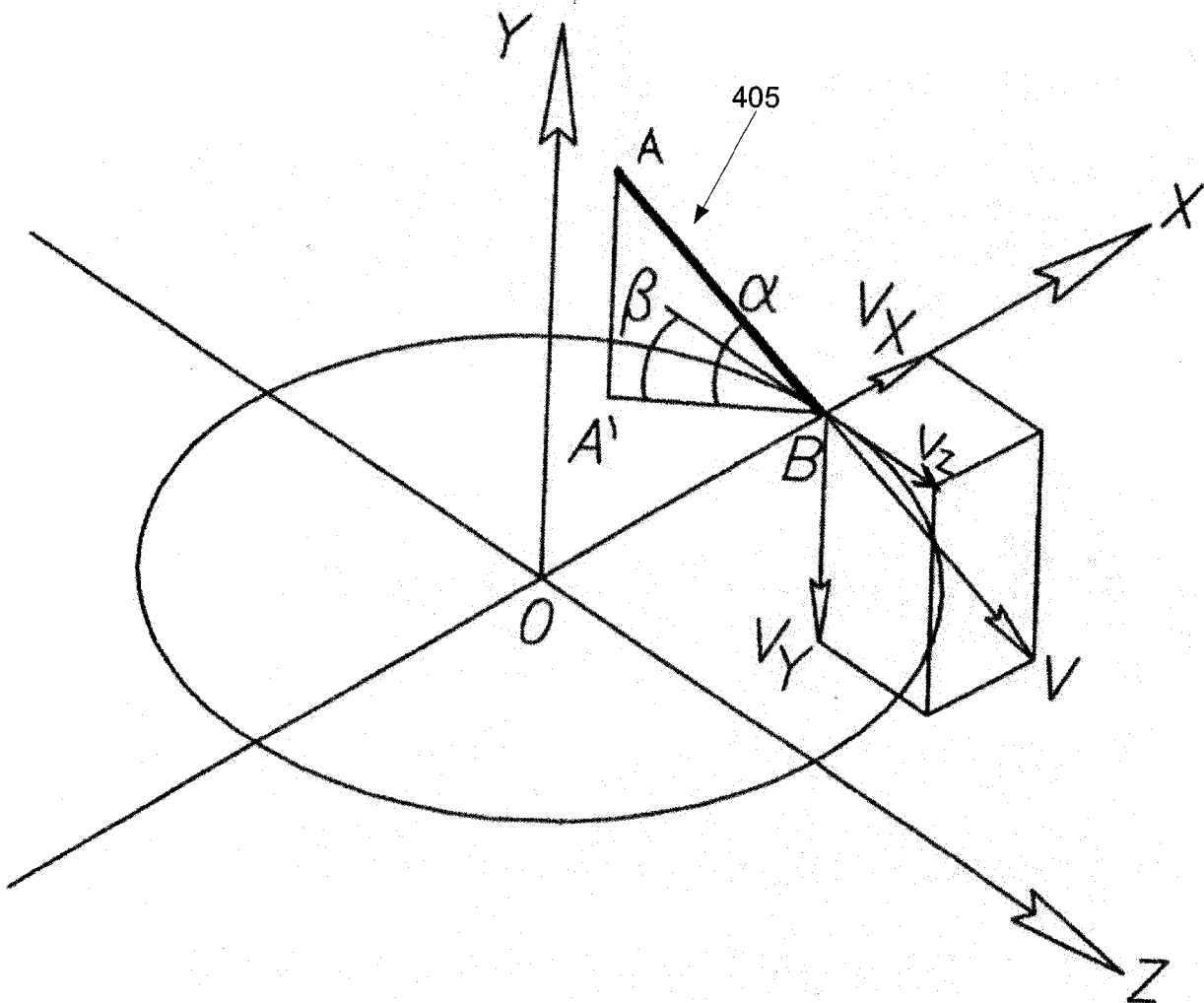


FIG. 4C

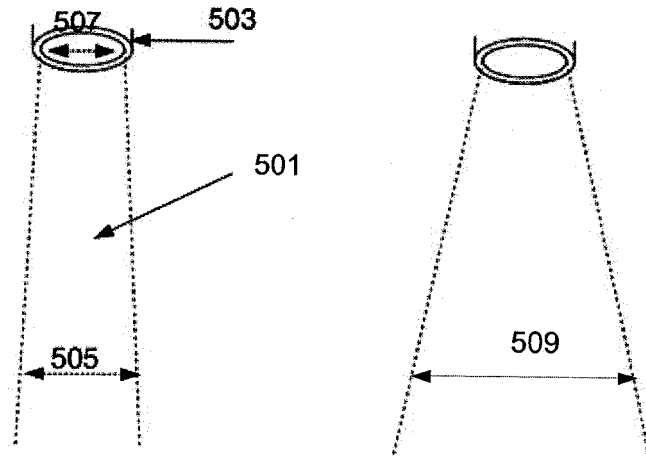


FIG. 5

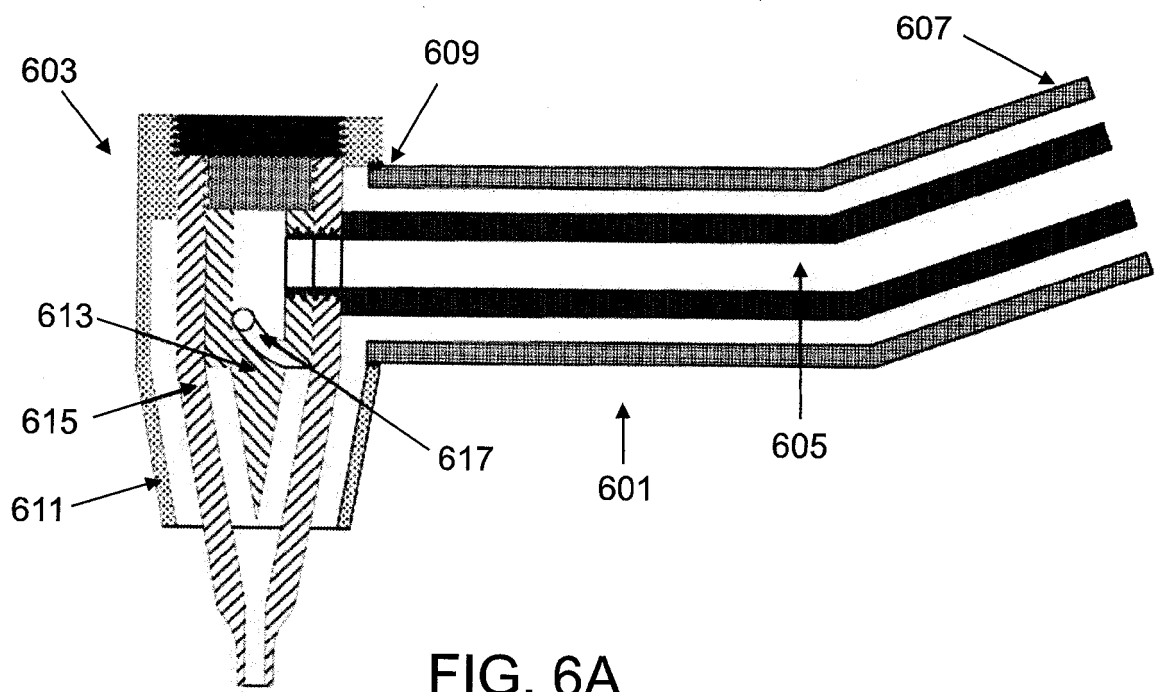


FIG. 6A

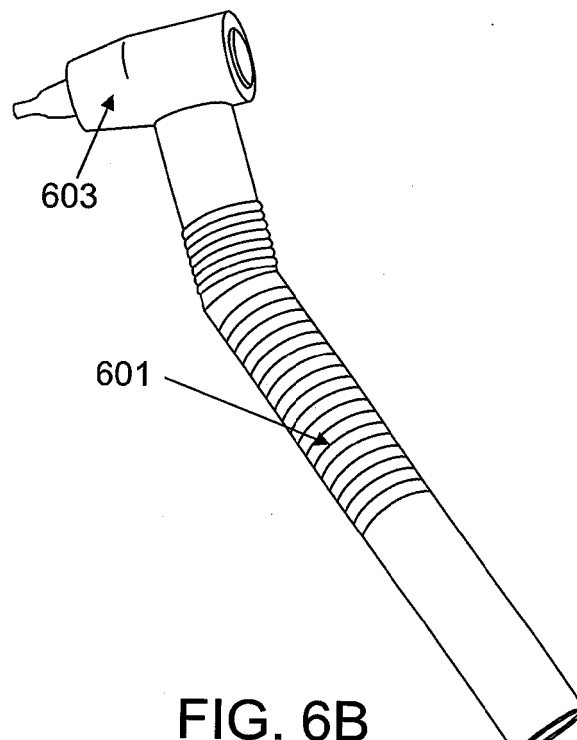


FIG. 6B

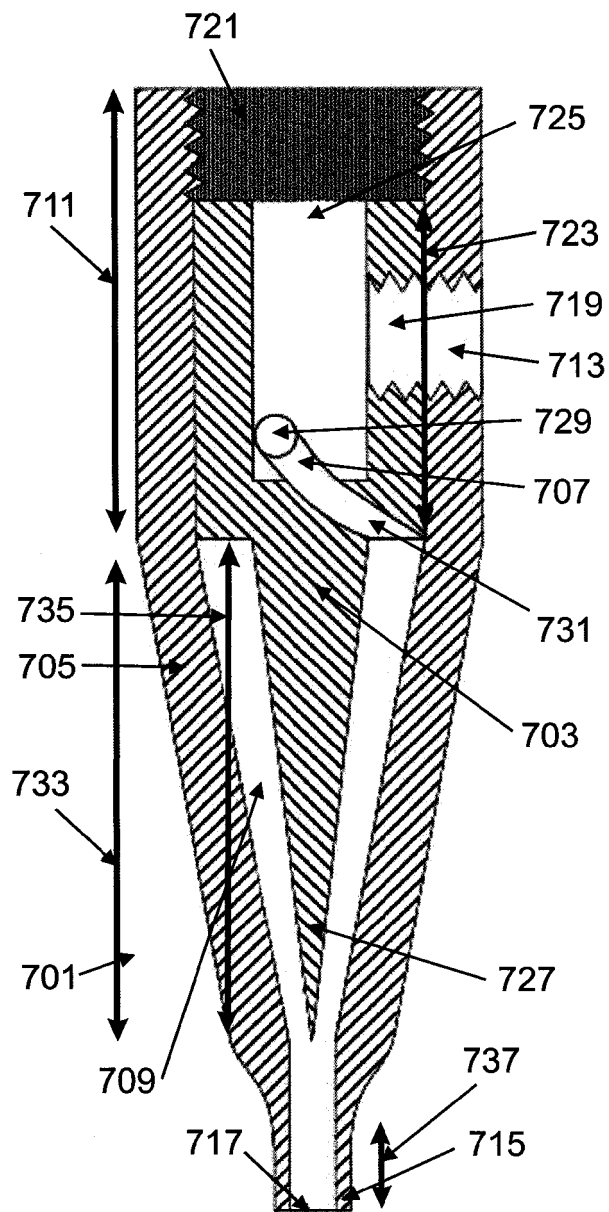


FIG. 7A

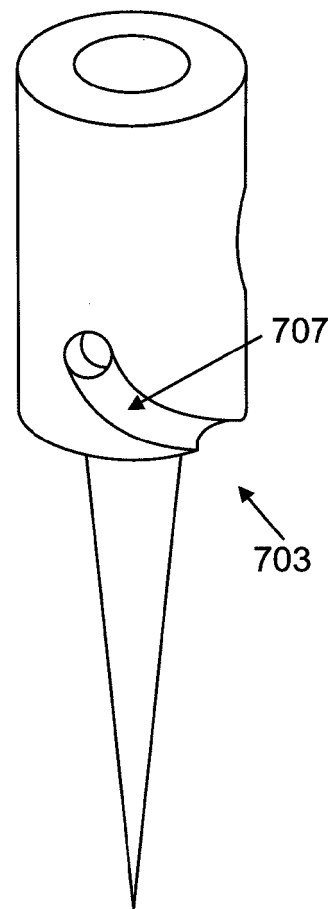


FIG. 7B

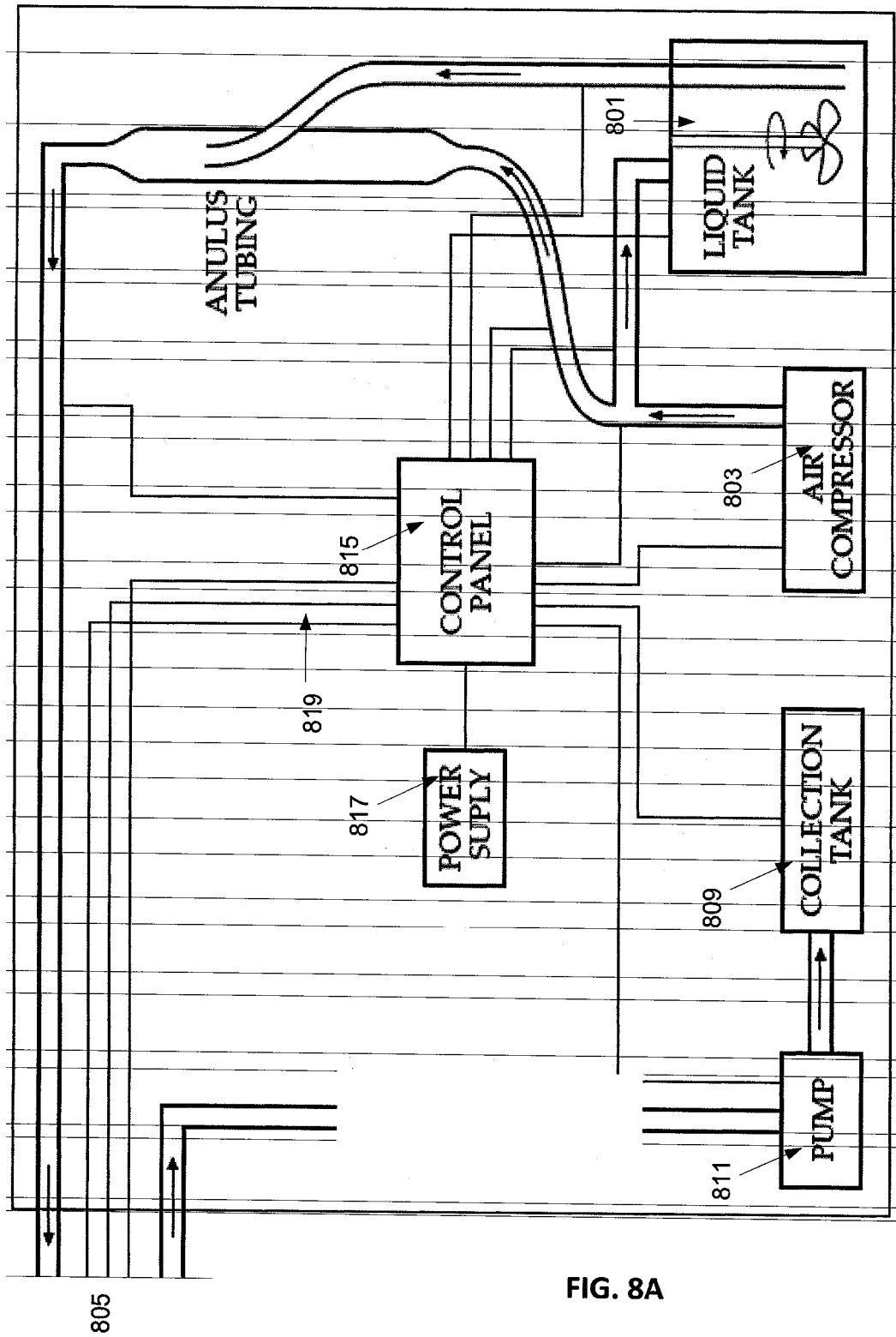
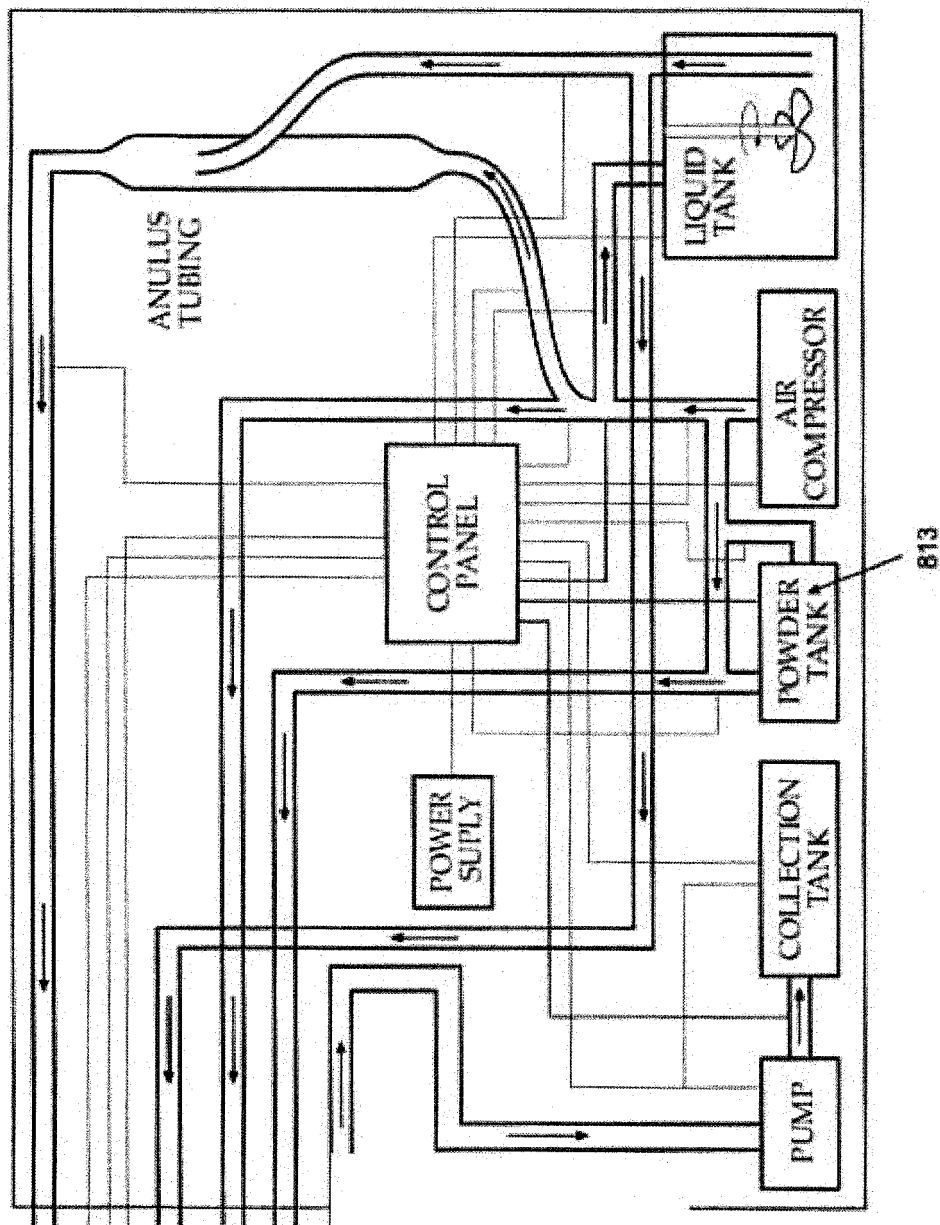


FIG. 8B



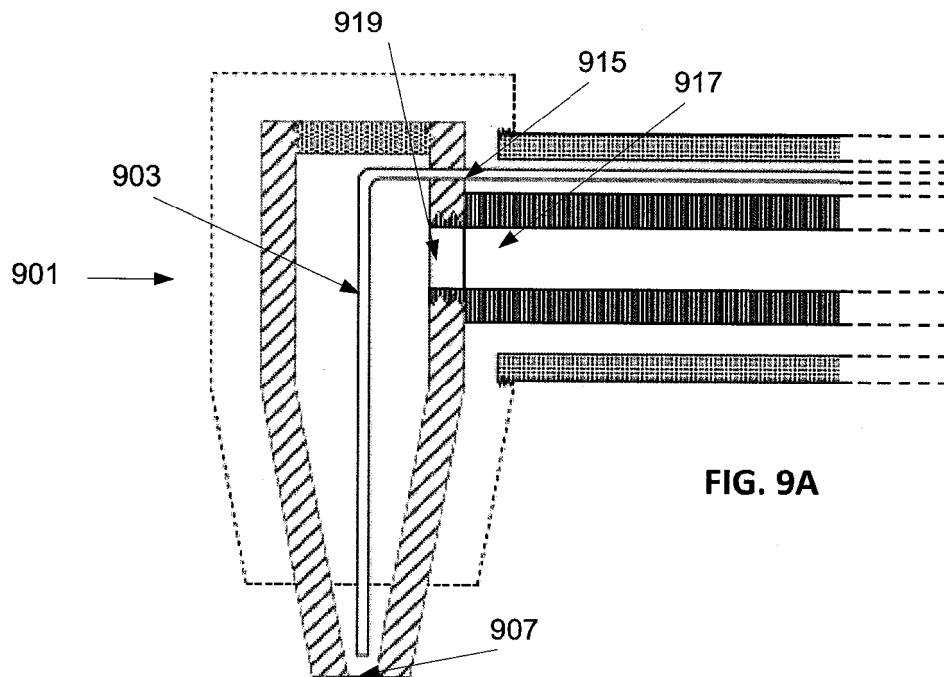
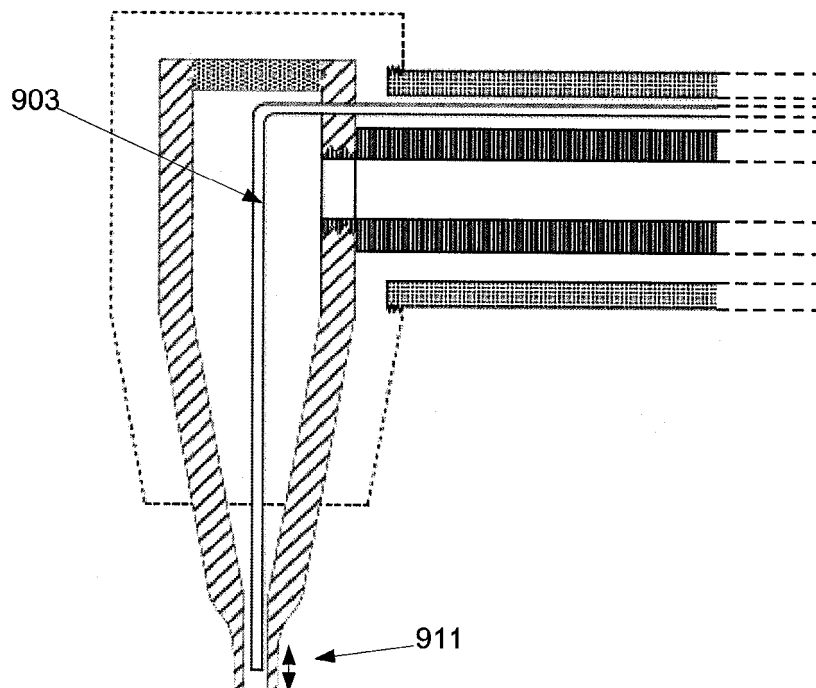


FIG. 9B



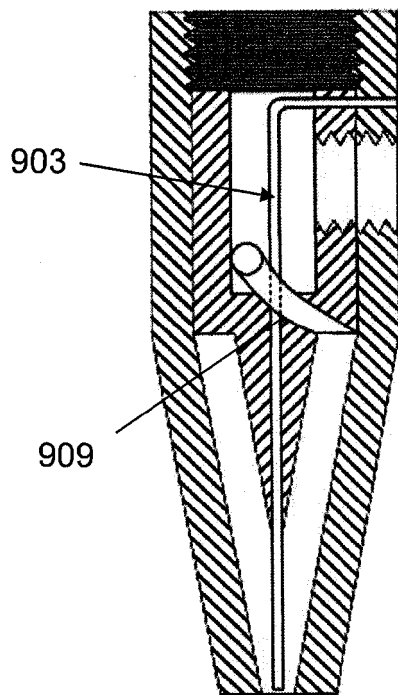


FIG. 9C

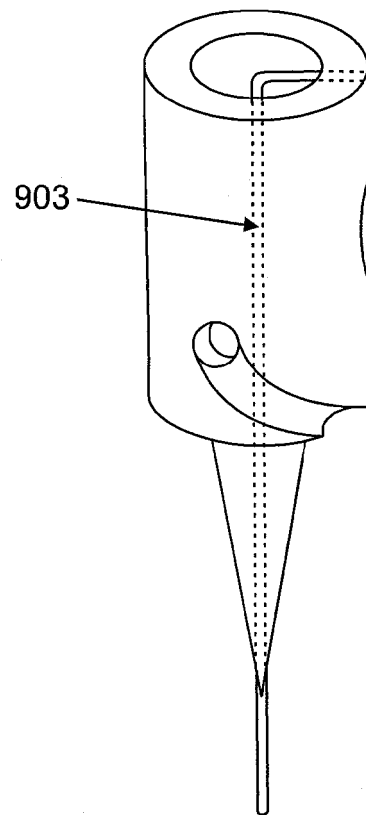
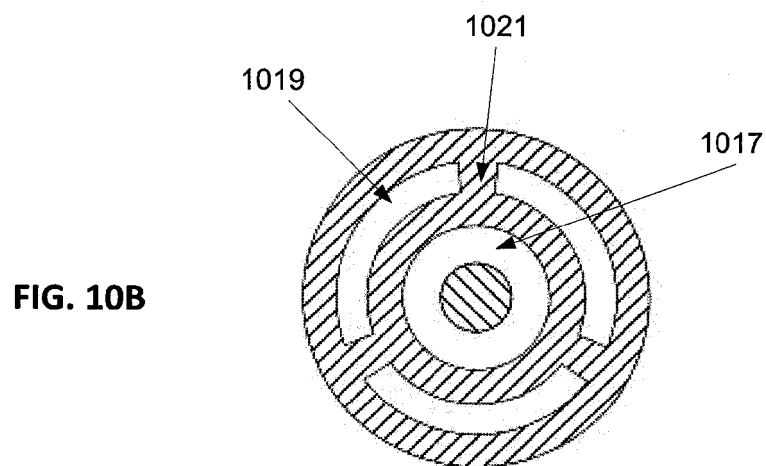
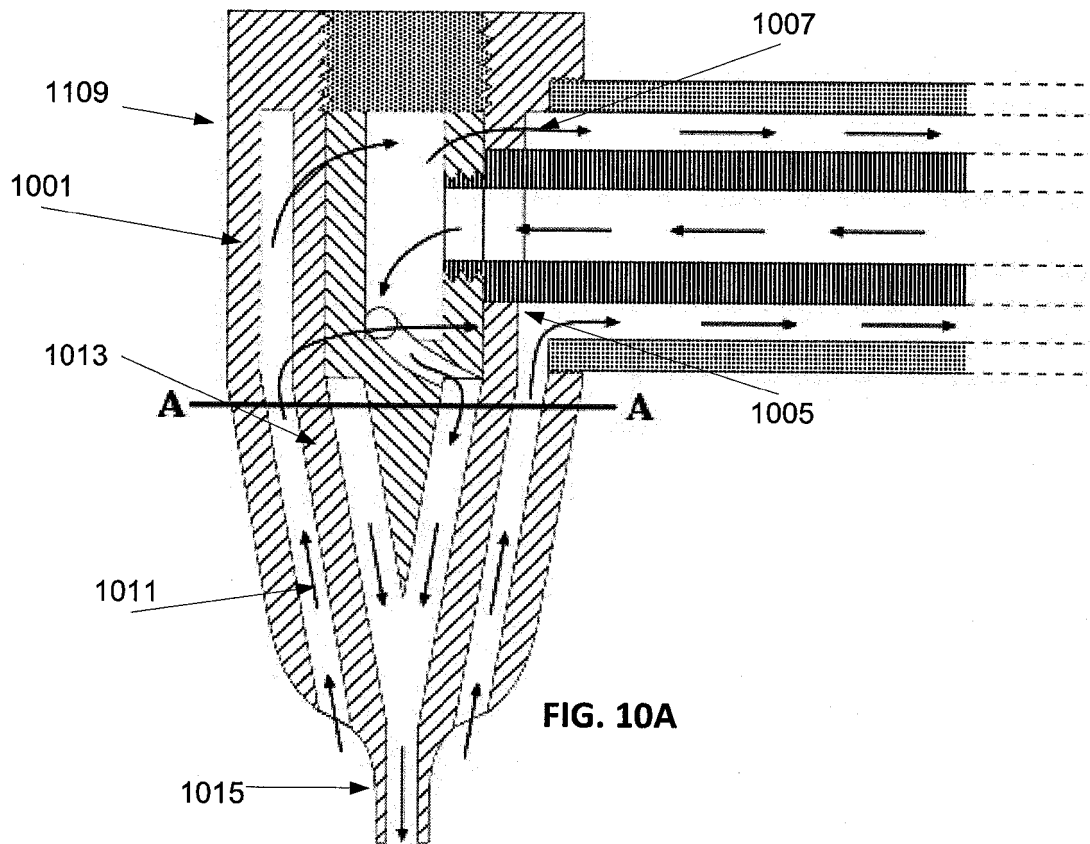


FIG. 9D



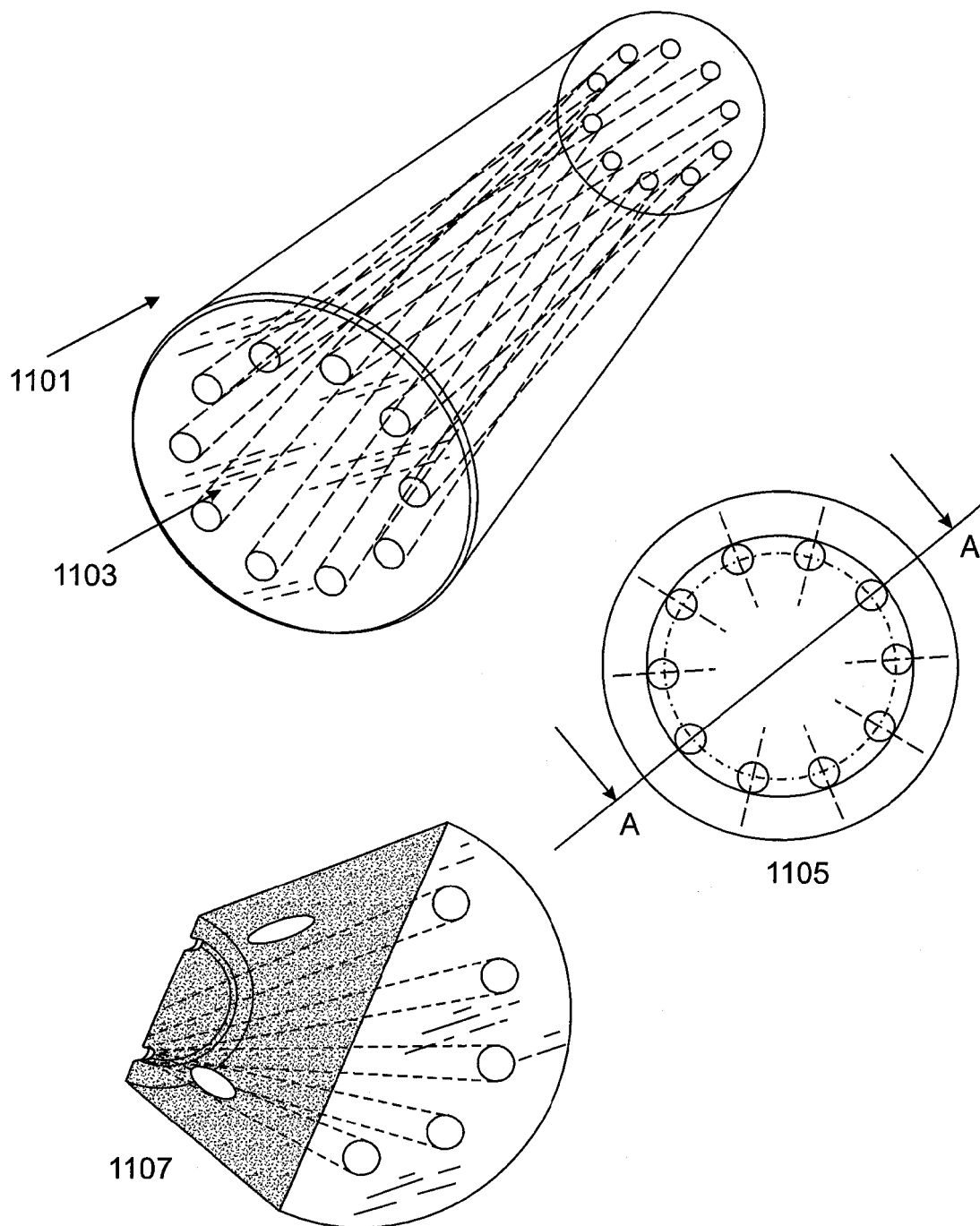


FIG. 11A

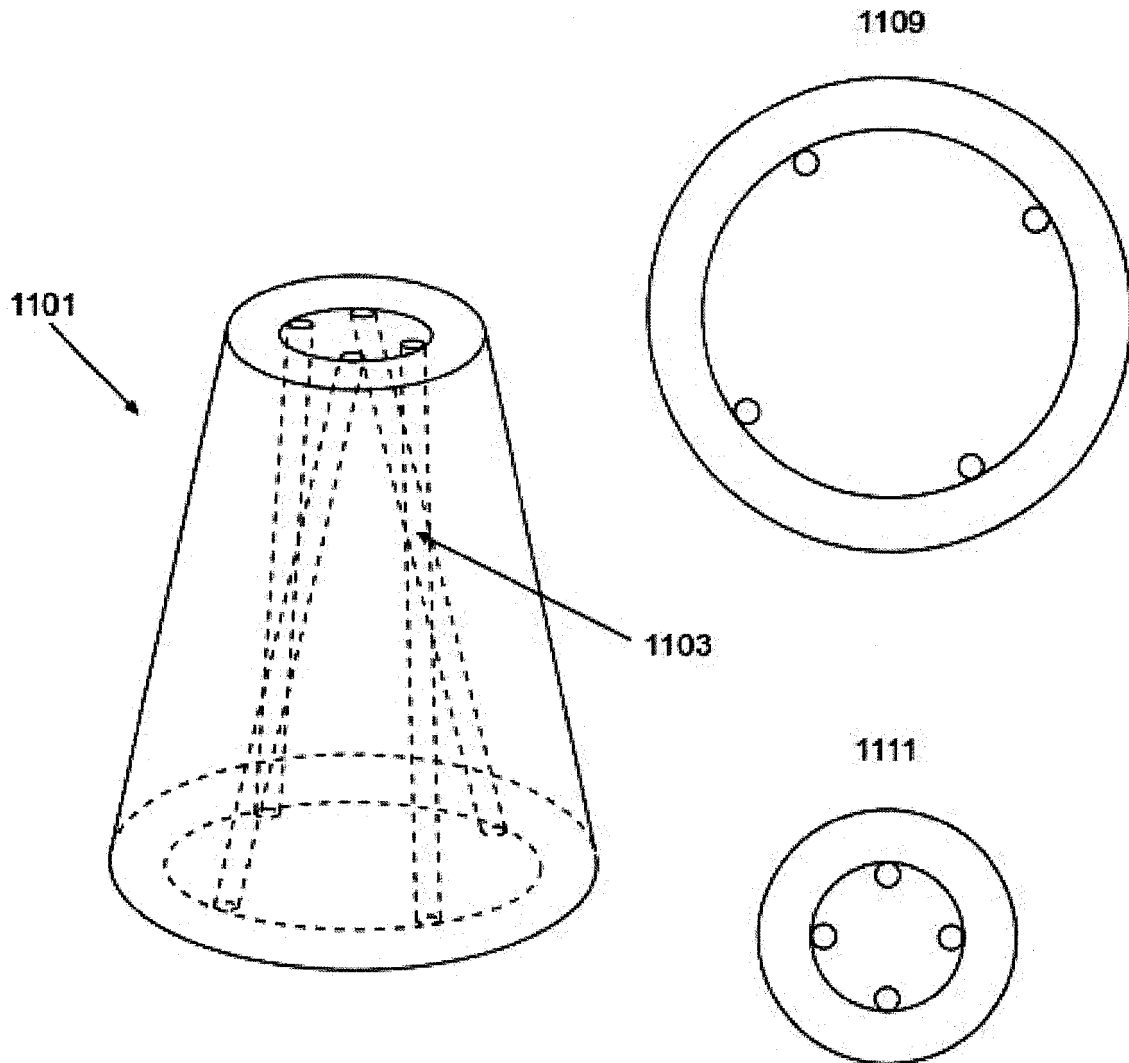


FIG. 11B

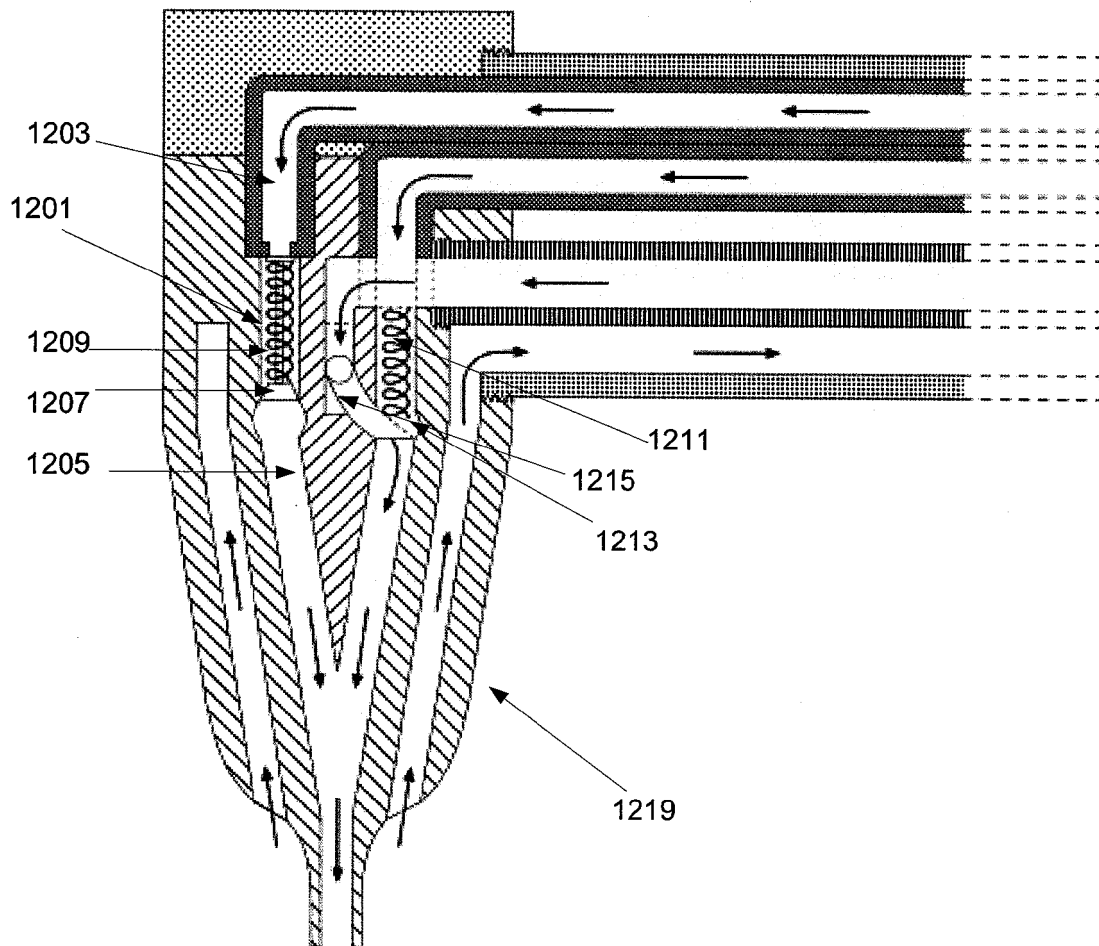


FIG. 12A

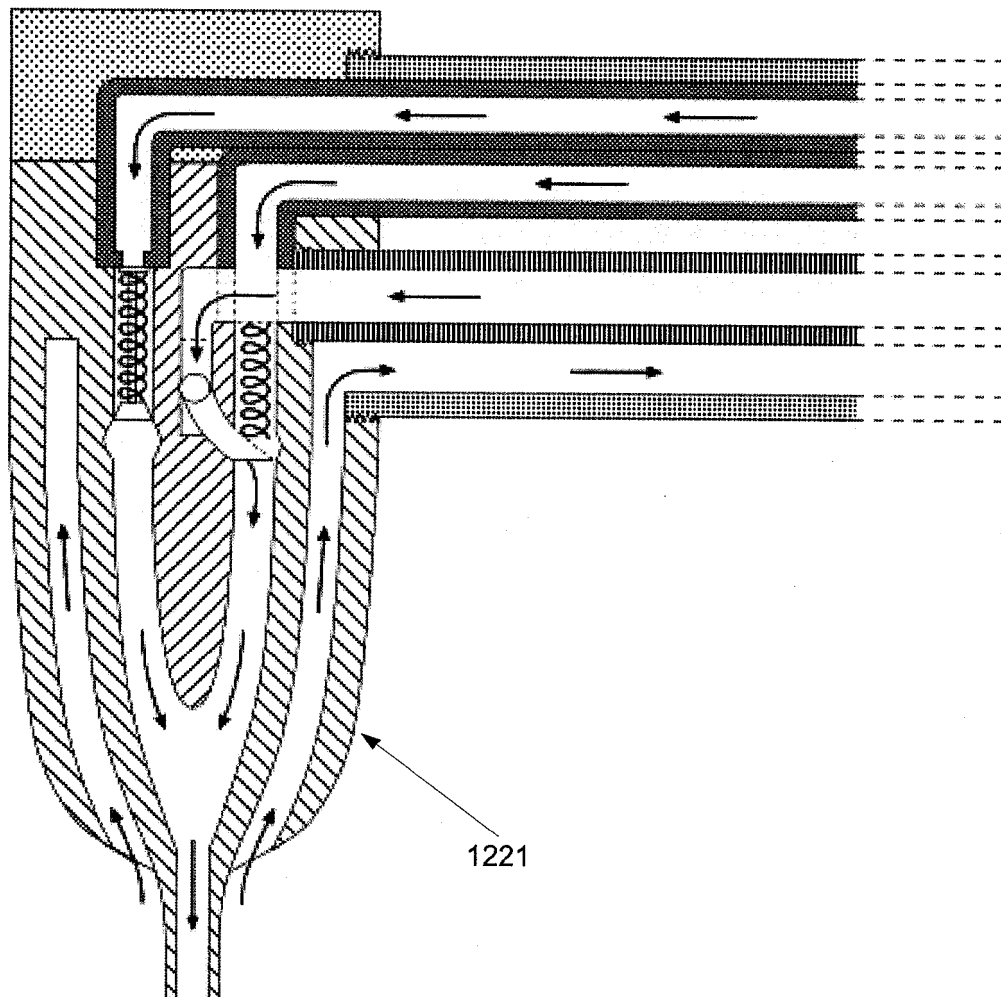


FIG. 12B

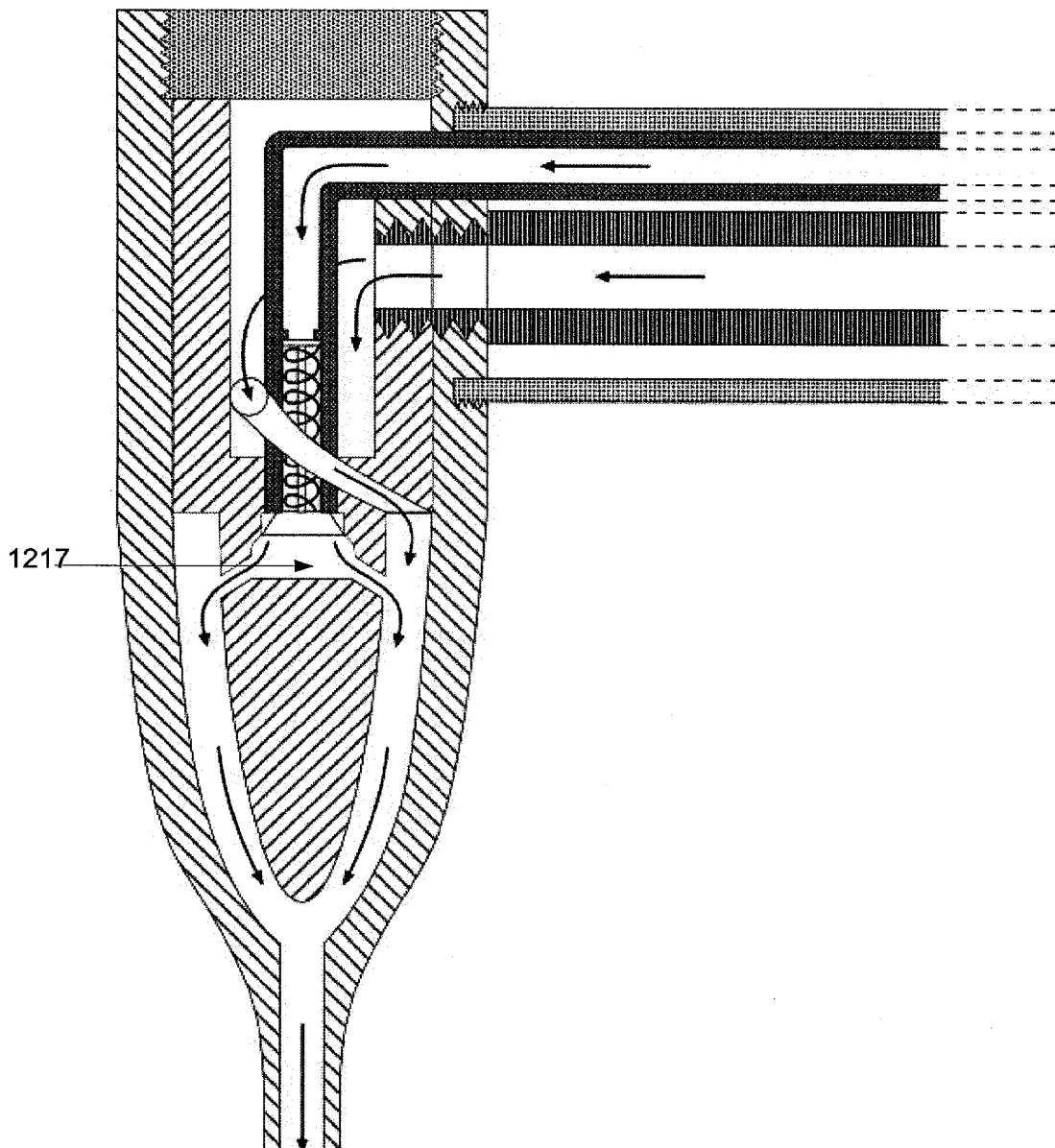
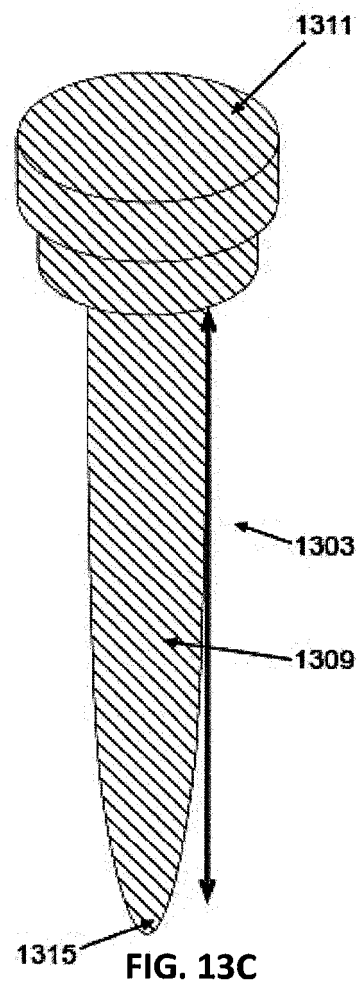
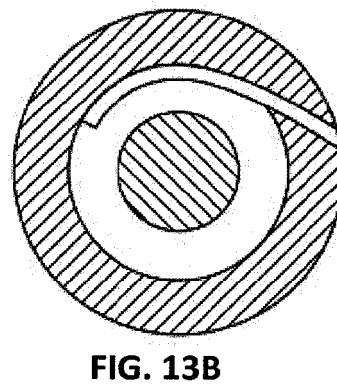
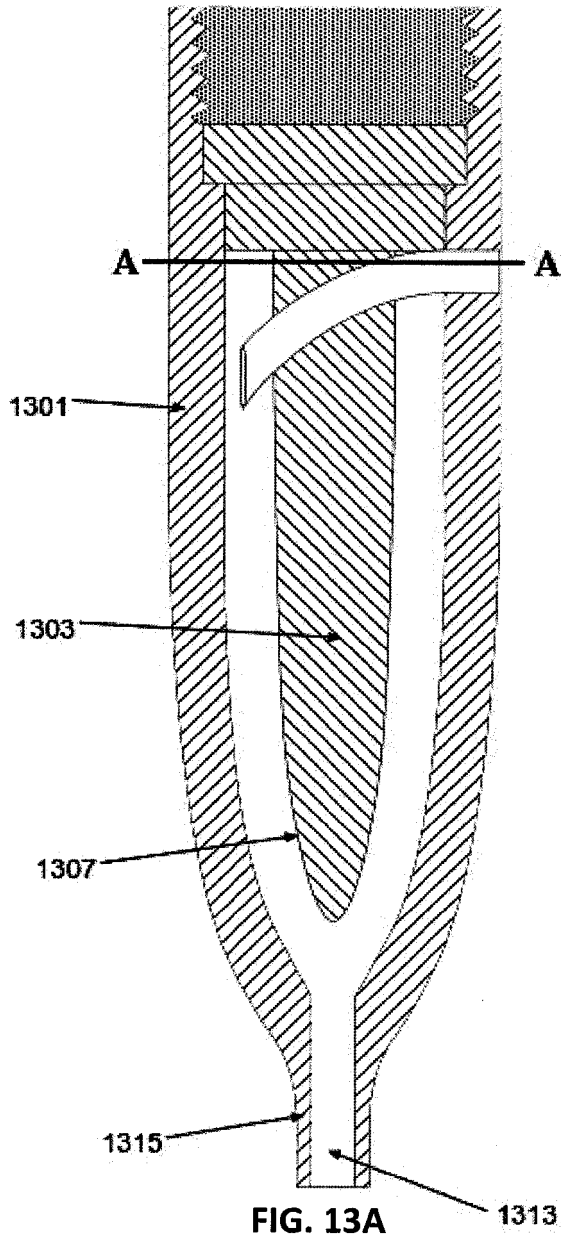


FIG. 12C



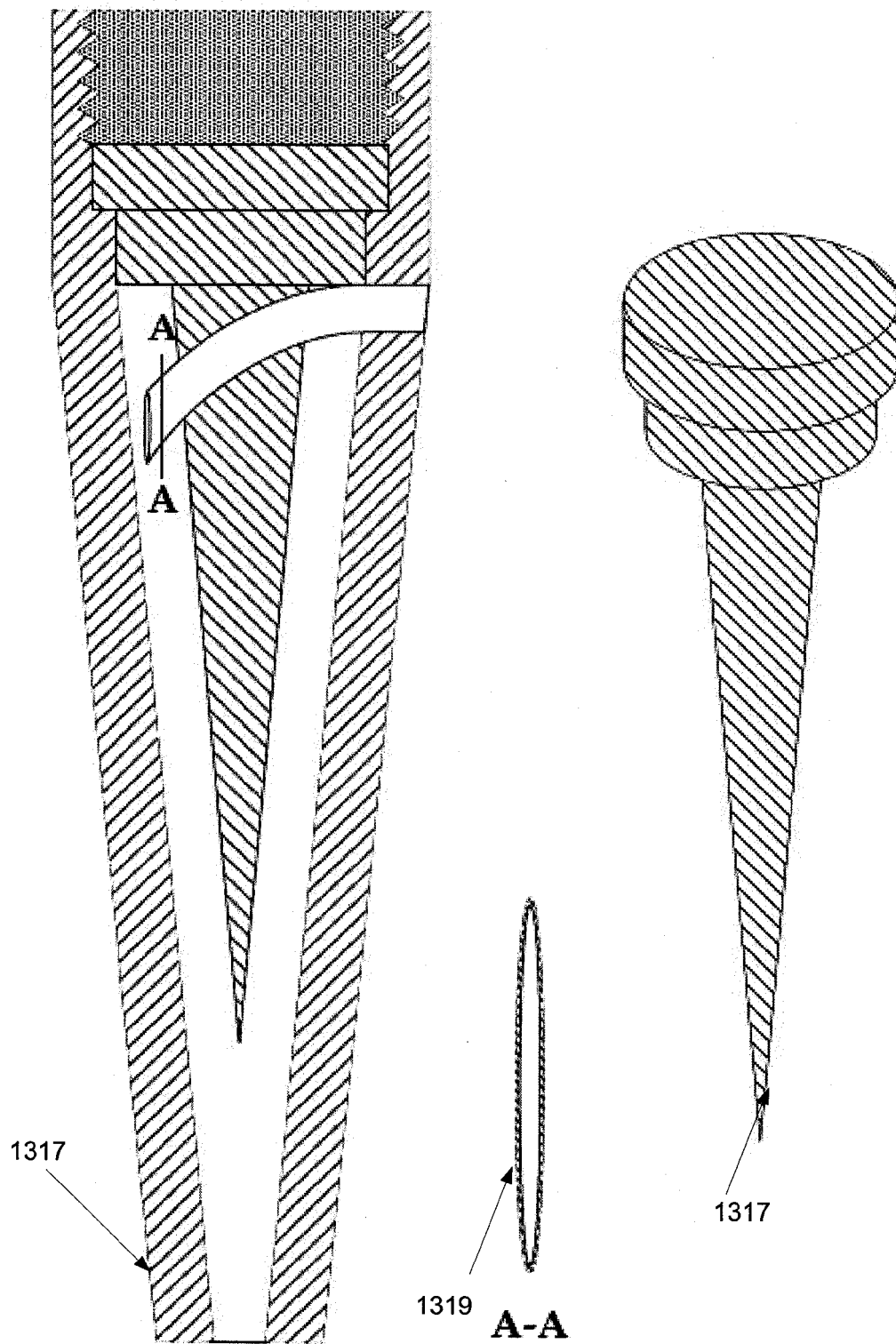


FIG. 13D

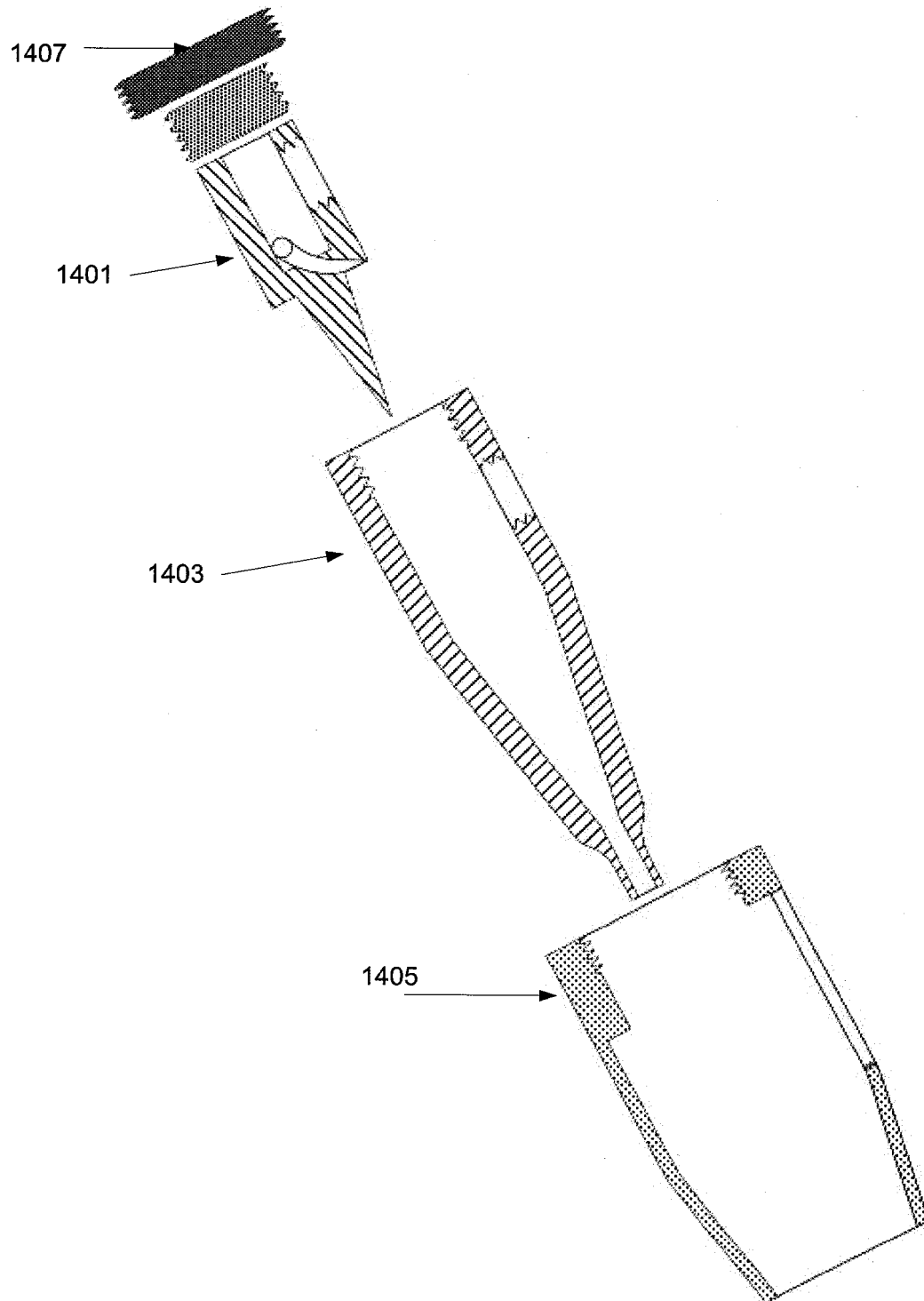
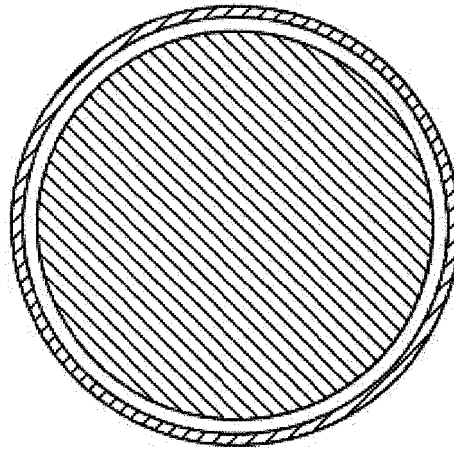
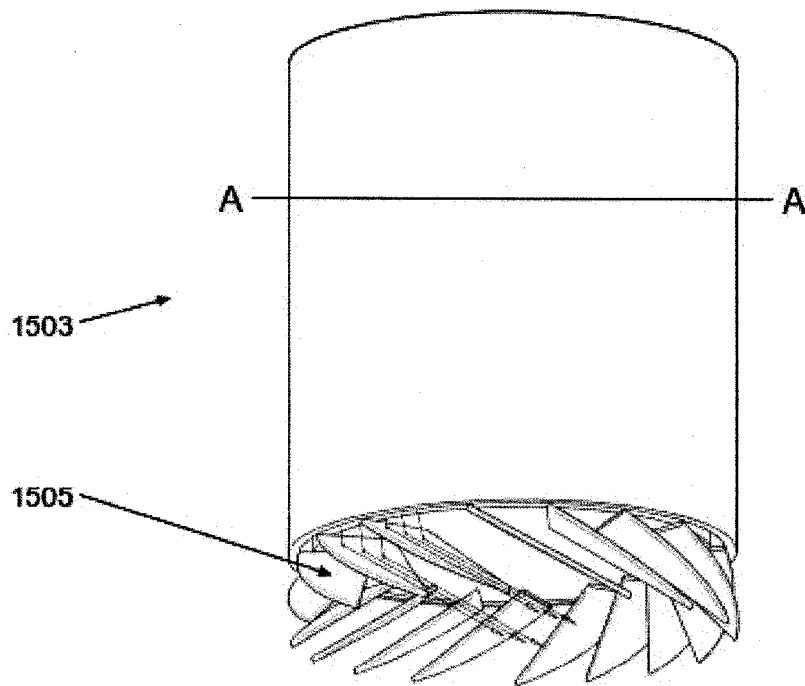


FIG. 14



Sec. A-A

FIG. 15

FEASIBILITY STUDY FOR: APPARATUS AND METHOD FOR ENDODONTIC TREATMENT

STUDY PURPOSE: feasibility test for novel apparatus and endodontic treatment

Date: 28/02/13

The process supported with "Before and After" evidence results which supported with CT Imaging, Axial Mode for evaluate the thickness of the eroding layer in the root canal. Using Electro scan microscope (X 5000 magnification) testing the cleanliness of the root canal.

Tooth Nr.	Root Canal Type						Duration of Treatment in Seconds		Apex Penetration (Yes/No)	sidelong penetration by canal with a thin Wall (Yes/No)	Average Eroding layer in microns	Comments
	Total of canals per each specim.	Stand. Canal	Curve Canal	Sharp Curved Canal	Canal with Open Apex (X)	Extremely narrow canal (X)	15	30	45			
1	2	1	1		4			X		N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
2	4	1	2	1			X			N	100-200	Hole accidentally created on the side during the tooth opening
3	3	1	1	1		2		X		N	100-200	
4	4	2		2	3	1			X	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the openings
5	3	1	1	1		2			X	N	100-200	
6	3		2	1				X		N	100-200	
7	3	2	1						X	N	100-200	
8	4	2	2						X	N	100-200	
9	3		1	2	1	2	X			N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
10	3	2		1	3					N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening

FIG. 16A

Tooth Nr.	Root Canal type						Duration of Treatment in Seconds			Apex Penetration (Yes/No)	sidelong penetration by canal with a thin Wall (Yes/No)	Average Eroding layer in microns	Comments
	Total of canal per each specim.	Stand. Canal (X)	Curve Canal (X)	Sharp Curved Canal (X)	Canal with Open Apex (X)	Extremely narrow canal (X)	15	30	45				
11	3	1		2	1	2		x		N	N	100-200	
12	4	2	1	1	3	2			x	N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
13	3	3			1			x		N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
14	4	1	2	1					x	N	N	100-200	Hole accidentally created on the bottom between canal, during the tooth opening
15	3	2	1	1	1	1		x		N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
16	4	1	1	2			x			N	N	100-200	1 canal was broken before the cleaning procedure
17	4	3		1			x			N	N	100-200	
18	3	1		2	3		x			N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
19	2	1	1						x	N	N	100-200	
20	1	1						x		N	N	100-200	

FIG. 16A (continued)

Tooth Nr.	Root Canal type						Duration of Treatment in Seconds			Apex Penetration	sidelong penetration by canal with a thin Wall	Average Eroding layer in microns	Comments
	Total of canal per each specim.	Stand. Canal	Curved Canals	Sharp Curved Canal	Canal with Open Apex	Extremely narrow canal	15	30	45				
		(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(Yes/No)			
21	1	1					X			N	N	100-200	
22	3	1	2				X			N	N	100-200	
23	3	1		2	2		X			N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
24	4	3	1		3		X			N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
25	3		2	1	1		X			N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
26	3	1		2					X	N	N	100-200	Apex was broken and open initially - (M) size for 3 canals
27	3	1	2					X		N	N	100-200	
28	4	2	1	1	2	2			X	N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
29	2	1	1		1			X		N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
30	3	2	1		1	1			X	N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening

FIG. 16B

Tooth Nr.	Root Canal type Tooth No						Duration of Treatment in Seconds			Apex Penetration (Yes/No)	sidelong penetration by canal with a thin Wall Yes/No)	Average Eroding layer in microns	Comments
	Total of canal per each specim.	Stand. Root Canal (X)	Curved Canal (X)	Sharp Curved Canal (X)	Canal with Open Apex (X)	Extremely narrow canal (X)	15	30	45				
31	4	1	2	1		3		x		N	N	100-200	
32	4		2	2					x	N	N	100-200	
33	4	2	1	1	2	1	x			N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
34	3	1	2					x		N	N	100-200	
35	3		2	1			x			N	N	100-200	
36	3	1	1	1		2			x	N	N	100-200	
37	3	2	1					x		N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
38	4	1	2	1	1	2		x		N	N	100-200	Apex was open initially; cleaning might have caused a slight widening of the opening
39	3	3							x	N	N	100-200	
40	1	1				1			x	N	N	100-200	
41	1	1						x		N	N	100-200	

FIG. 16B (continued)

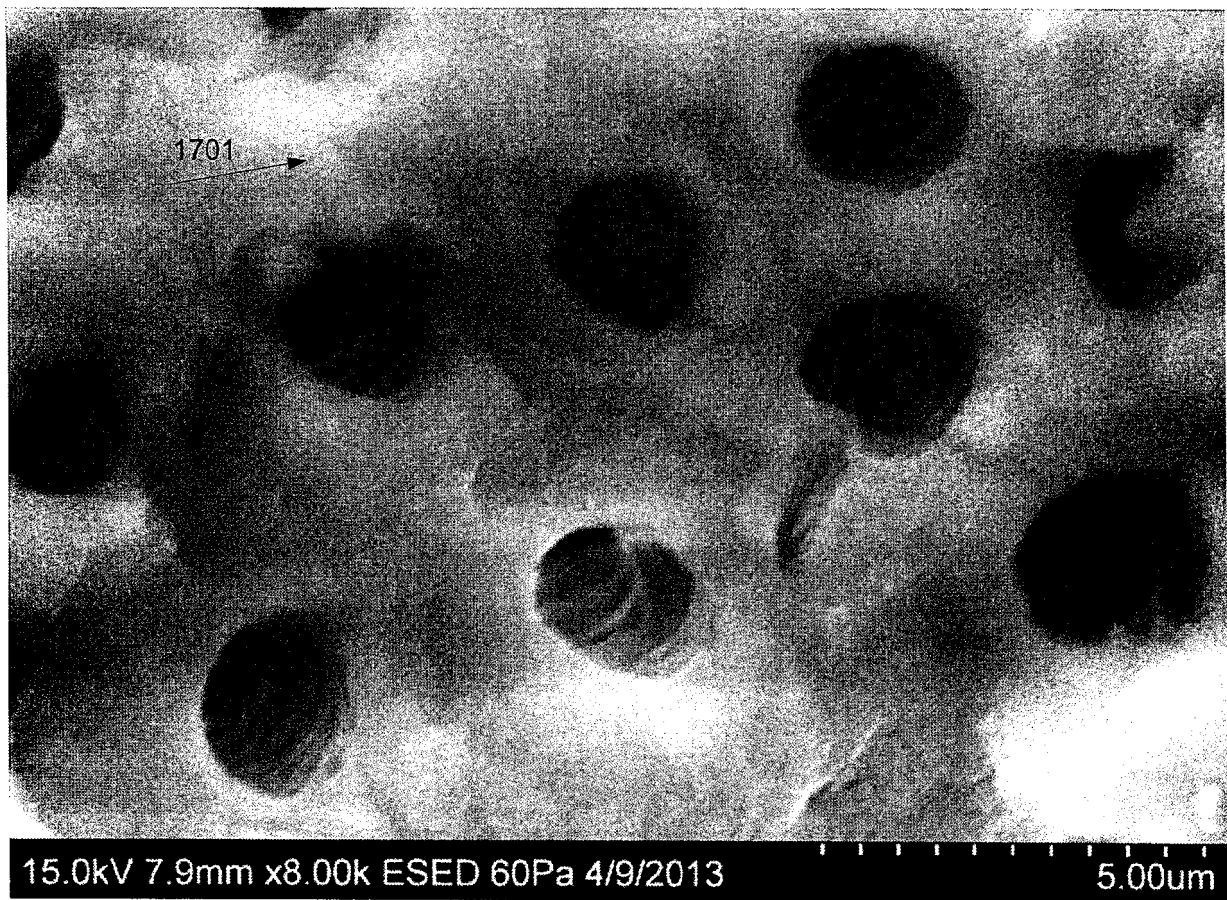


FIG. 17