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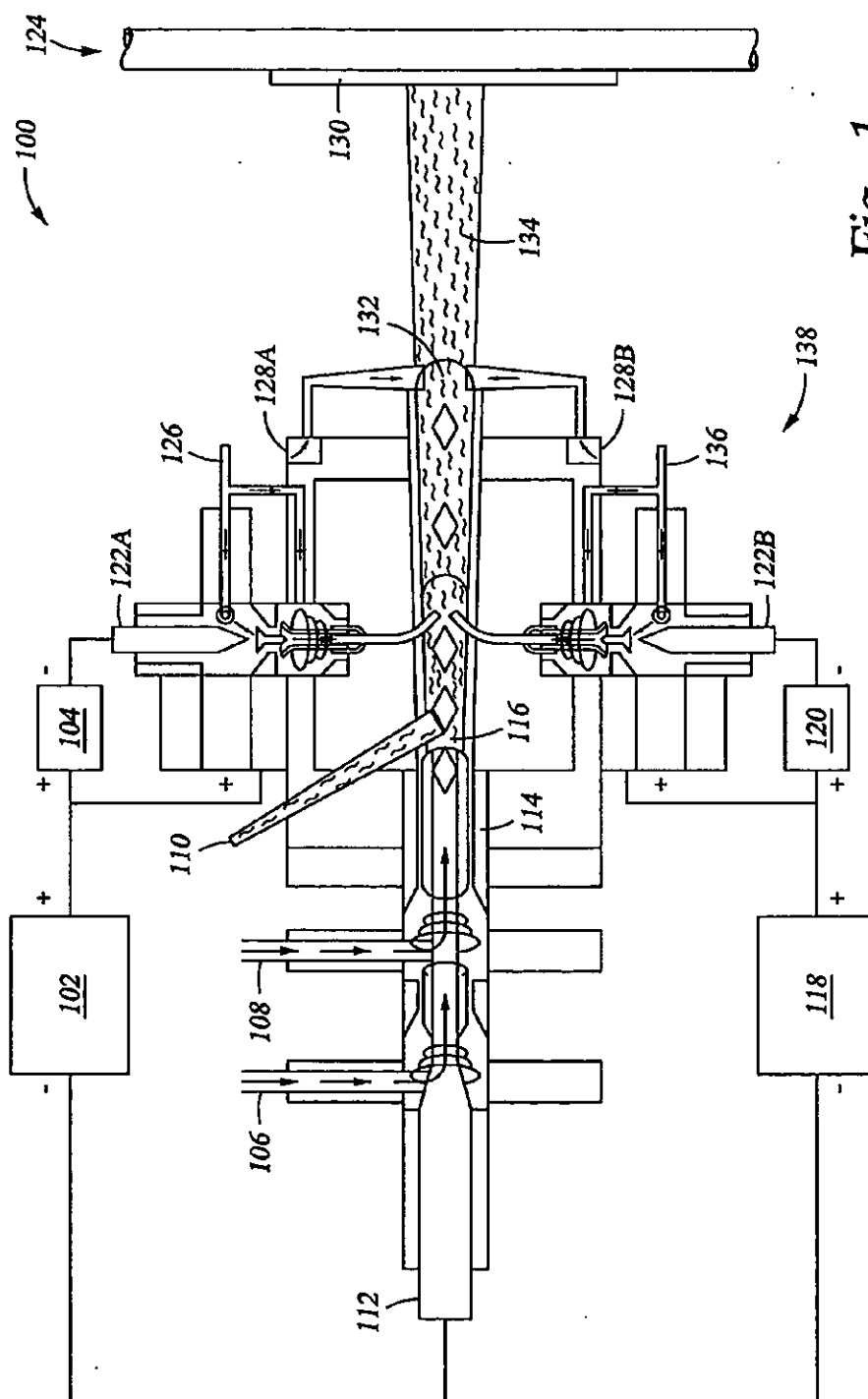


Fig. 1
(PRIOR ART)

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Fig. 2A
(PRIOR ART)



Fig. 2B
(PRIOR ART)



Fig. 2C
(PRIOR ART)



Fig. 2F

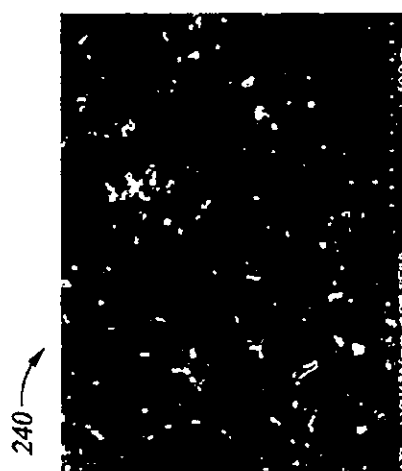


Fig. 2E

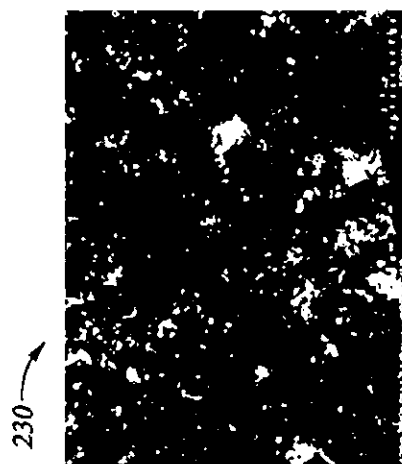


Fig. 2D

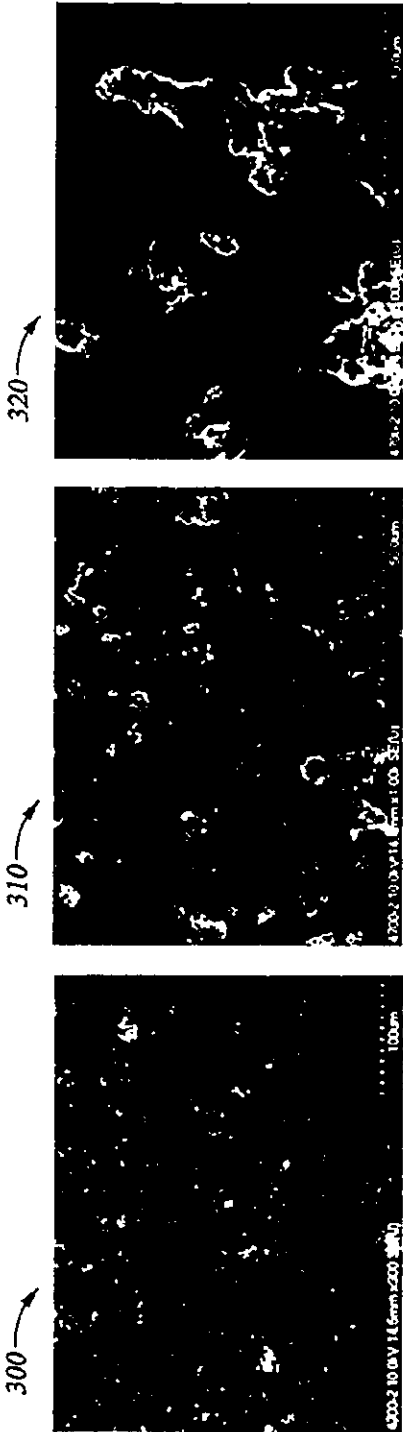


Fig. 3A

Fig. 3B

Fig. 3C

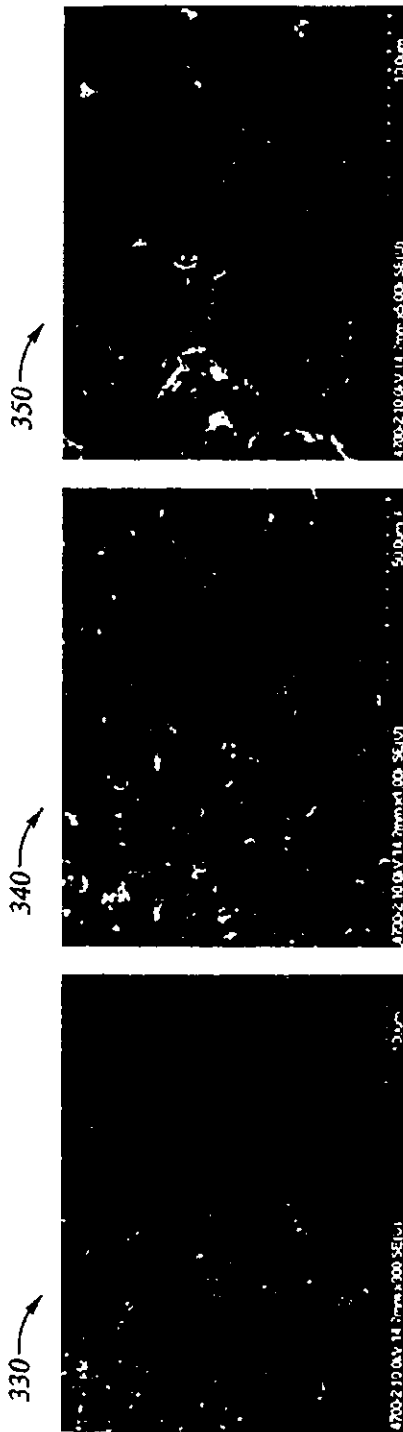


Fig. 3D

Fig. 3E

Fig. 3F

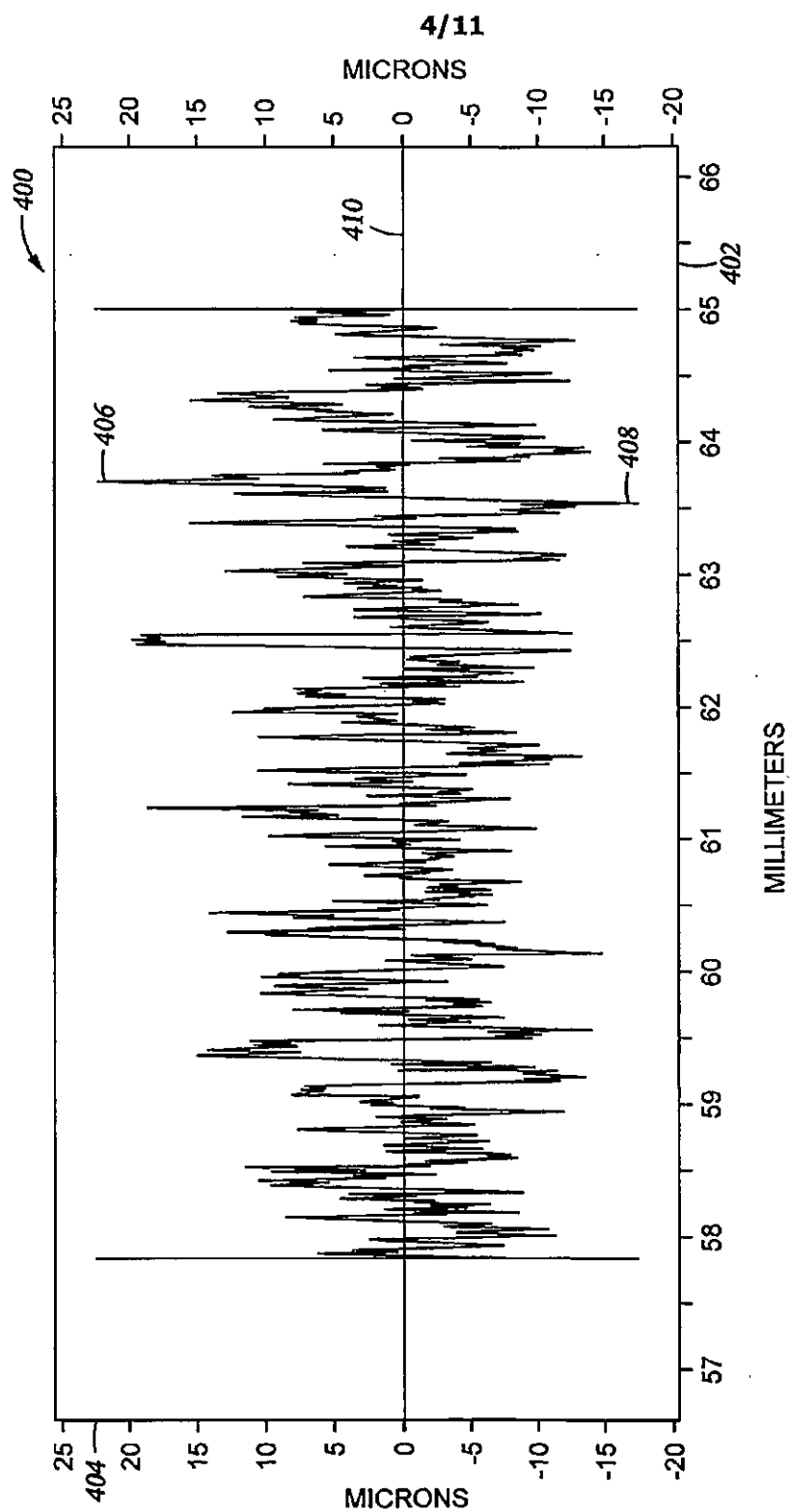


Fig. 4A
(PRIOR ART)

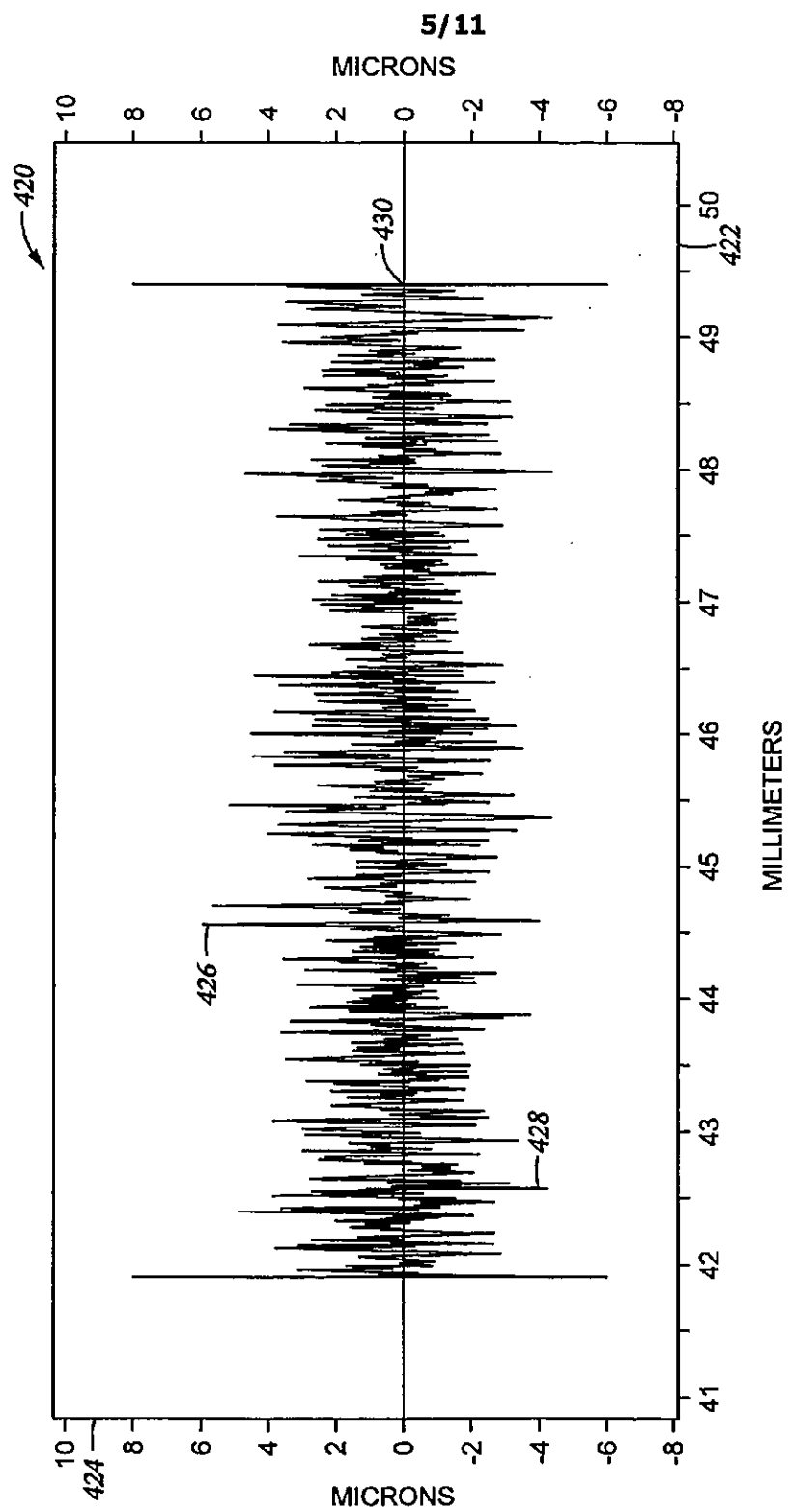
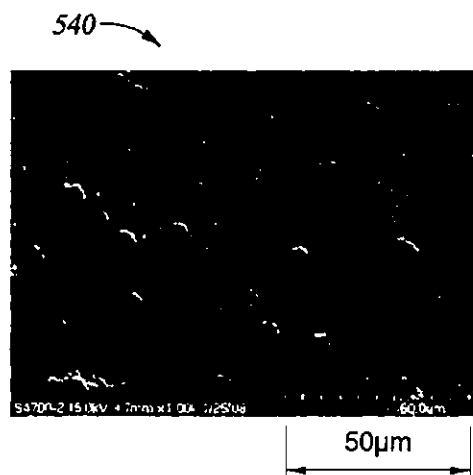
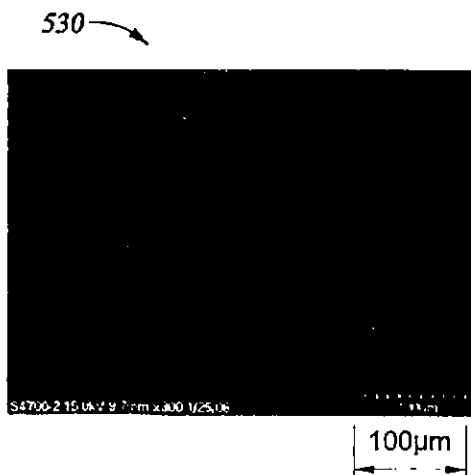
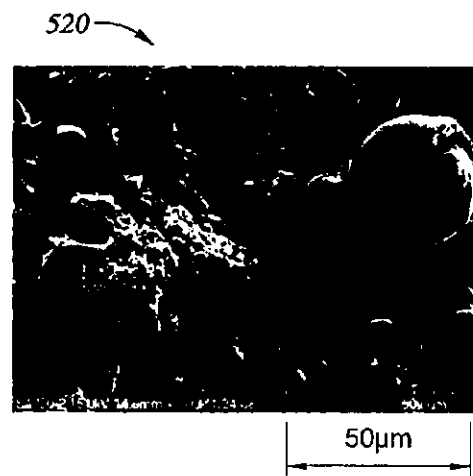
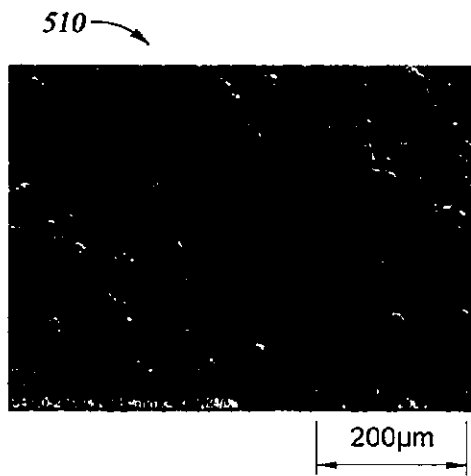


Fig. 4B

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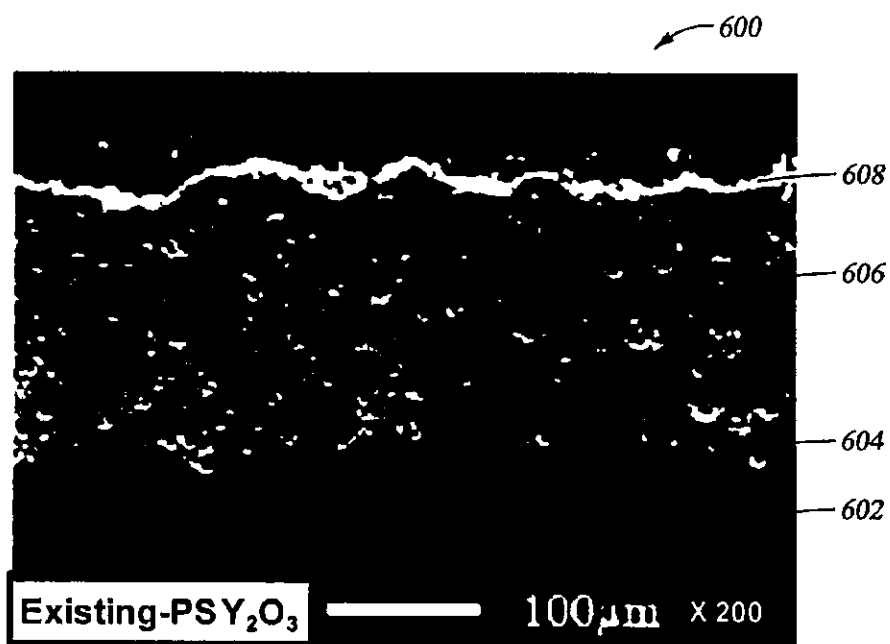


Fig. 6A

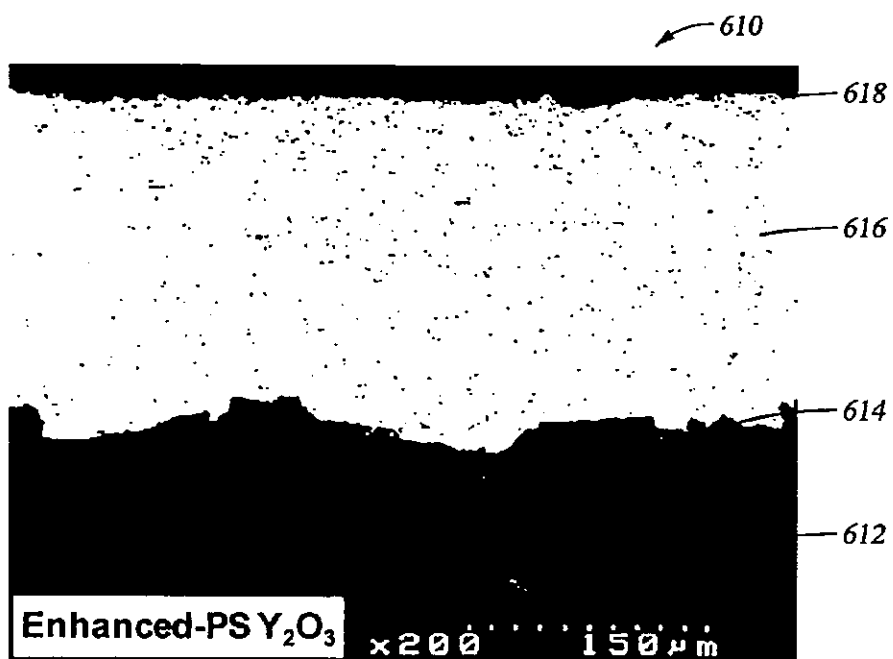


Fig. 6B

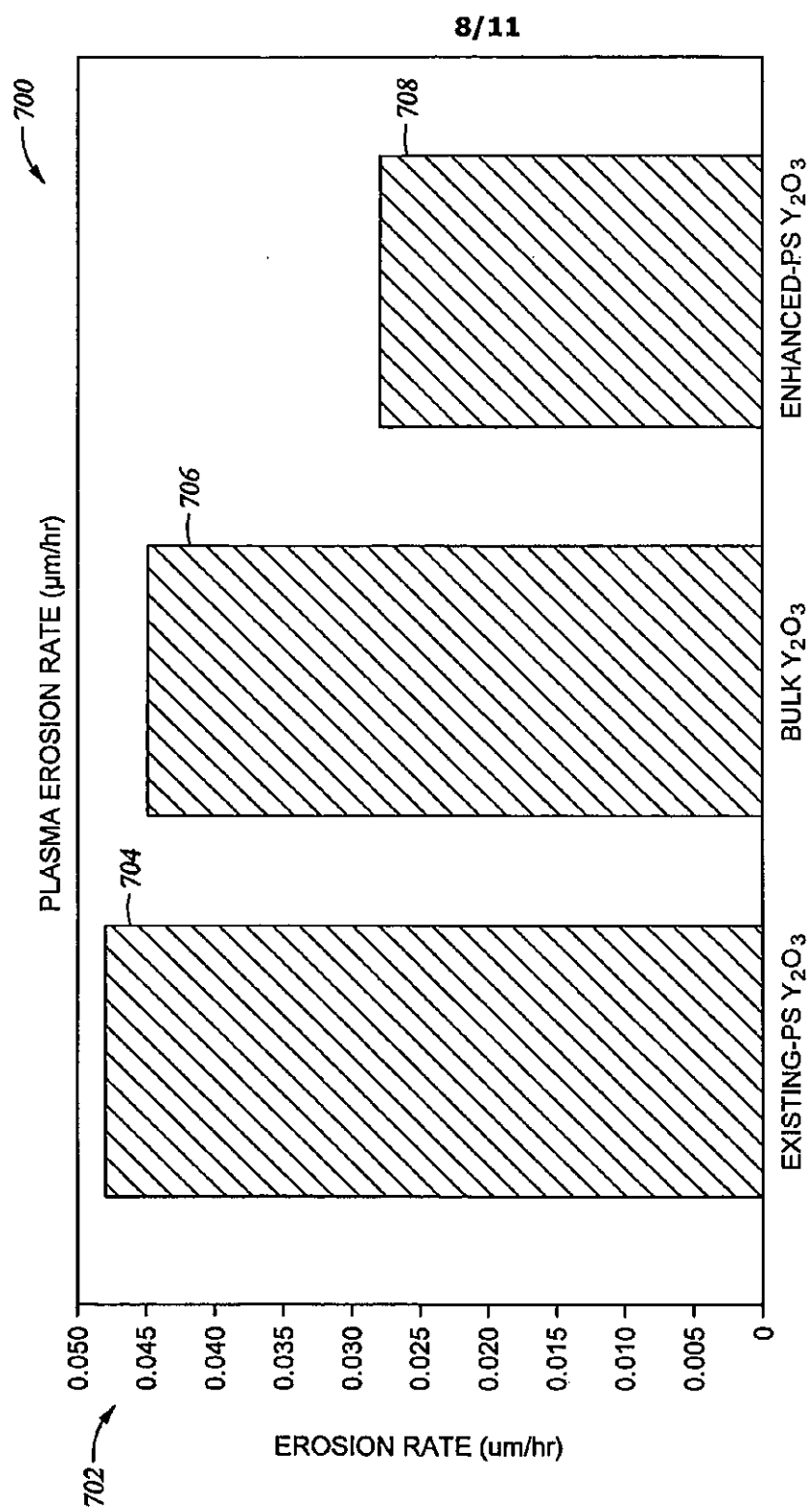


Fig. 7A

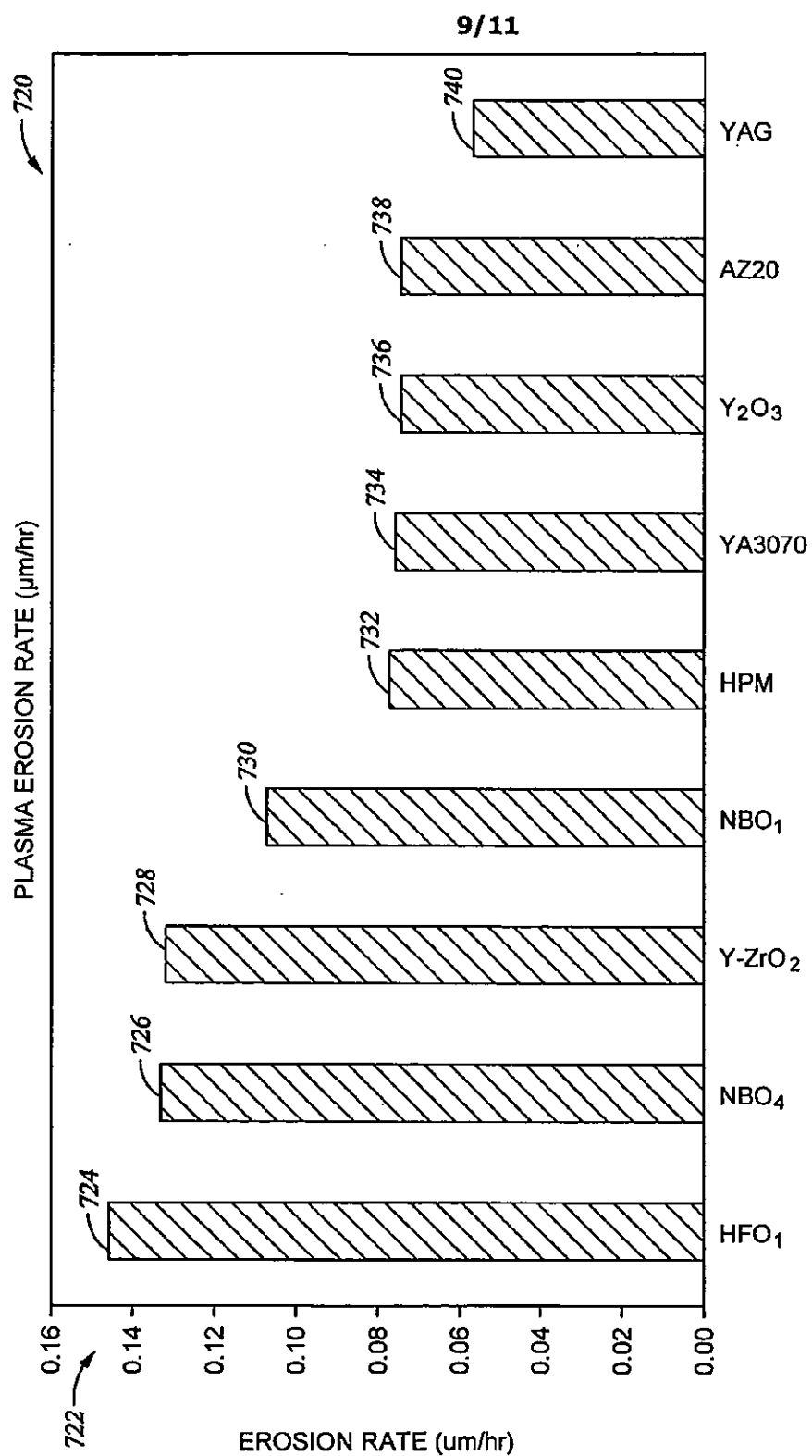


Fig. 7B

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EROSION RATE AND CHEMICAL COMPOSITION OF DIFFERENT MATERIALS

NEW NAME	EROSION RATE ($\mu\text{m/hr}$)	COMPOSITION
YAG	0.057	37.5mol% Y_2O_3 62.5mol% Al_2O_3
YZ20	0.074	73.2mol% Y_2O_3 26.8mol% ZrO_2
Y2O3	0.074	100mol% Y_2O_3
YA3070	0.076	8.5mol% Y_2O_3 91.5mol% Al_2O_3
HPM	0.077	63mol% Y_2O_3 , 14mol% Al_2O_3 , 23mol% ZrO_2
NBO1	0.107	70mol% Y_2O_3 , 10mol% Nb_2O_5 , 20mol% ZrO_2
Y-ZrO2	0.132	3mol% Y_2O_3 , 97mol% ZrO_2
NBO4	0.133	60mol% Y_2O_3 , 20mol% Nb_2O_5 , 20mol% ZrO_2
HFO1	0.146	75mol% Y_2O_3 , 20mol% HfO_2 , and 5mol% ZrO_2

Fig. 8

Fig. 9

