

1/13

CONVENTIONAL SOL-GEL

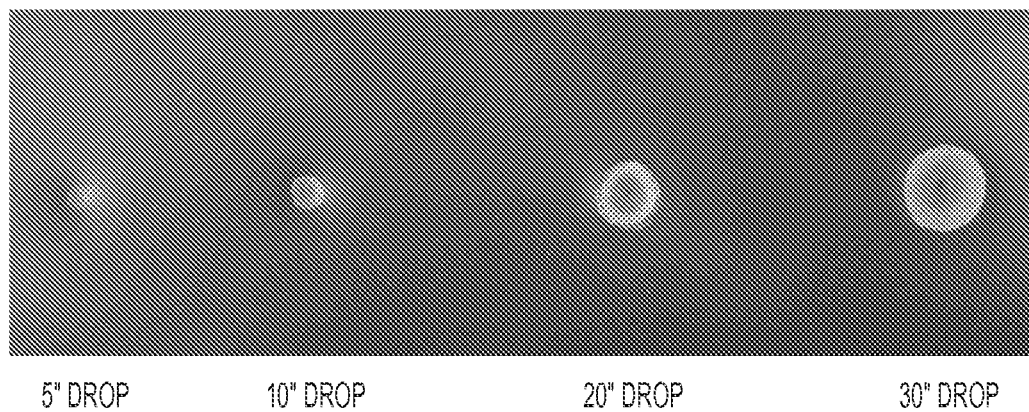


FIG. 1A

HYBRID SOL-GEL

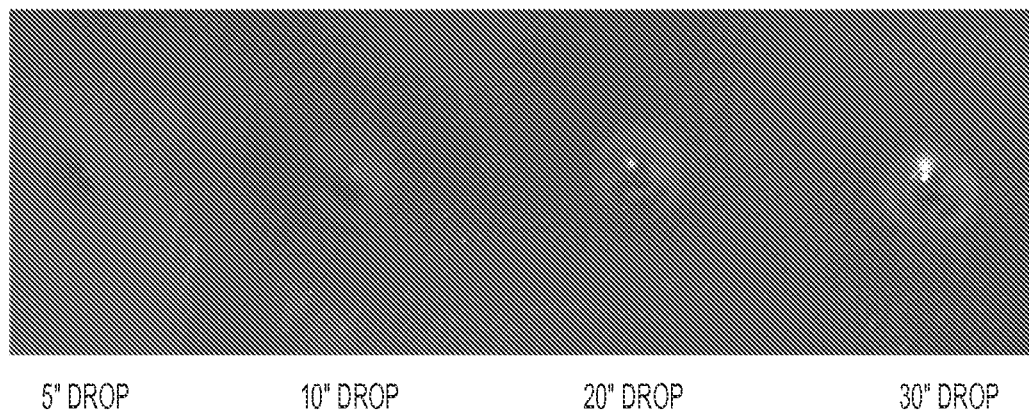
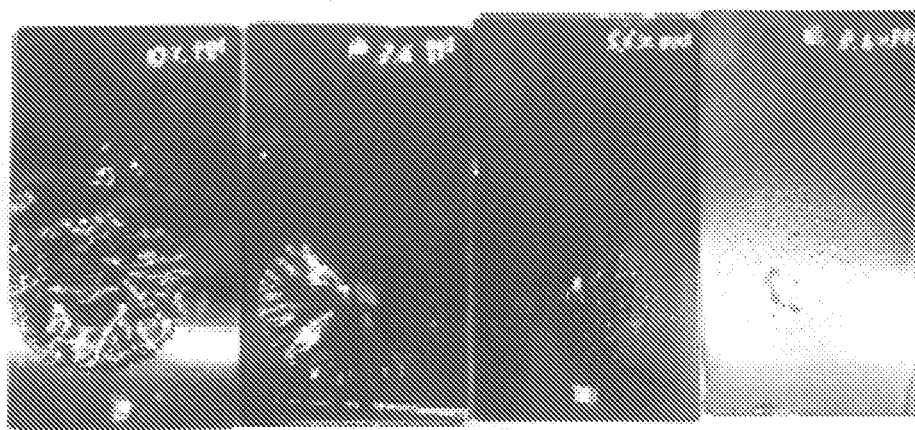


FIG. 1B

2/13

24h - 10% HCl



24h - 30% HCl

FIG. 2

3/13

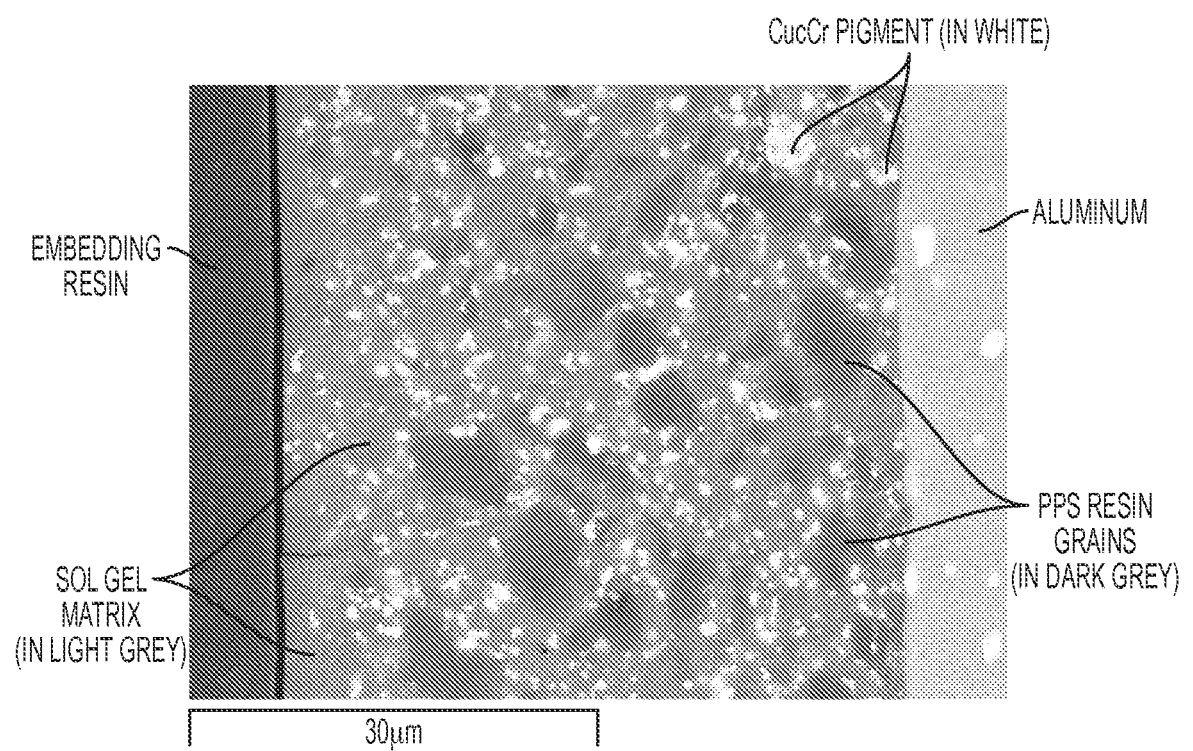


FIG. 3

4/13

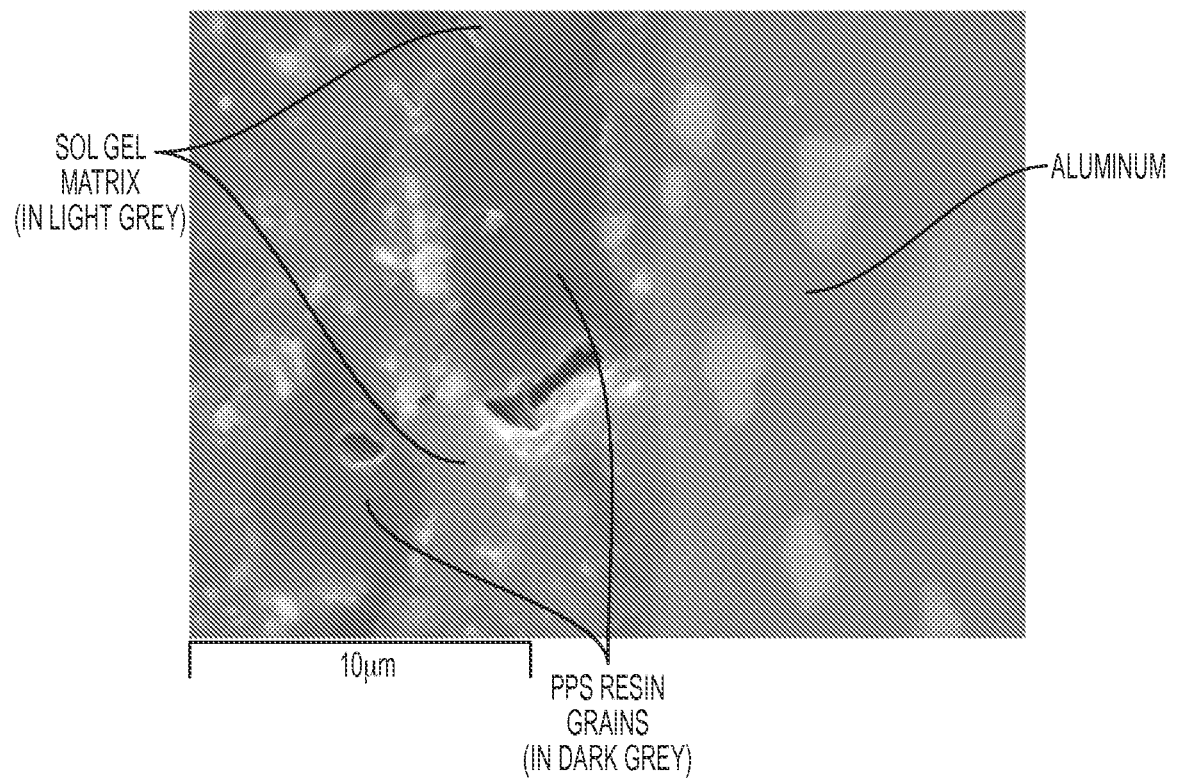


FIG. 4

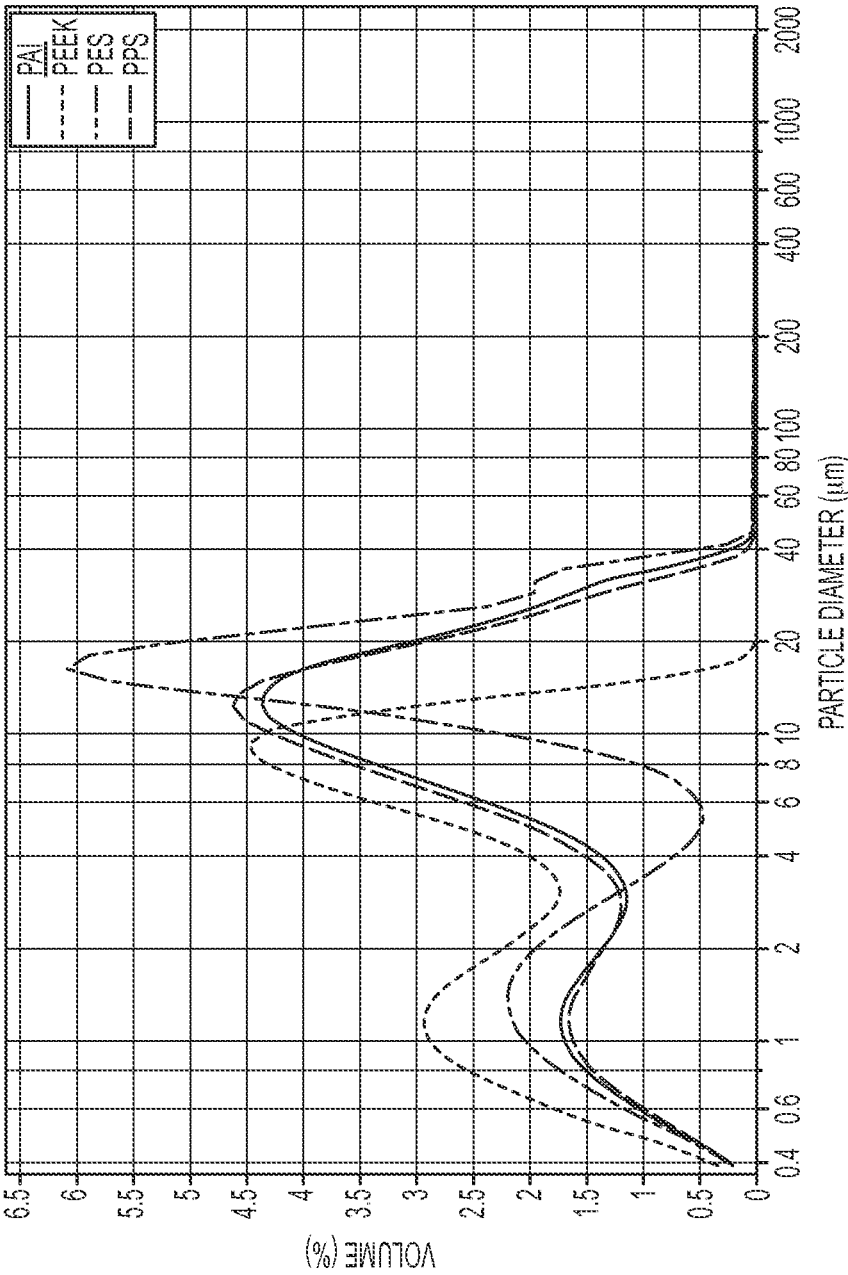


FIG. 5

6/13

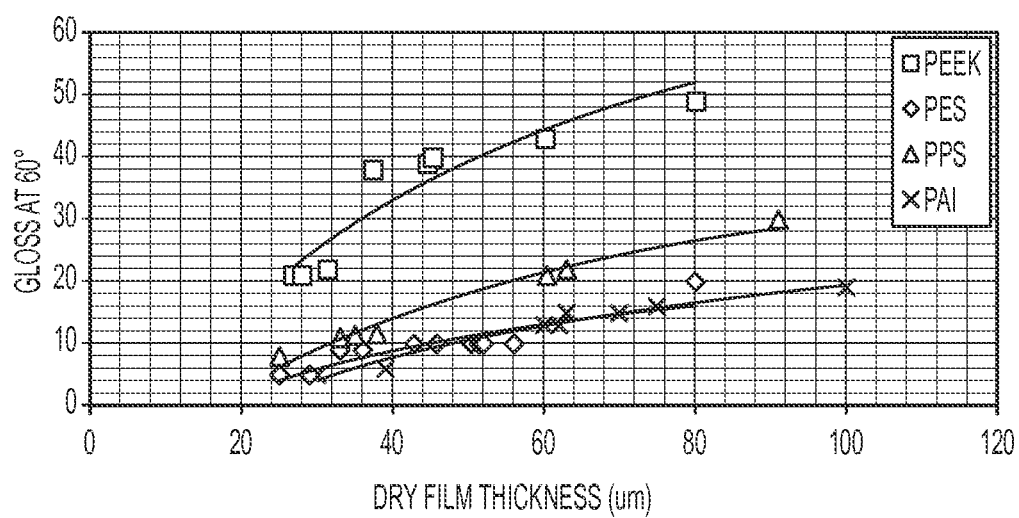


FIG. 6A

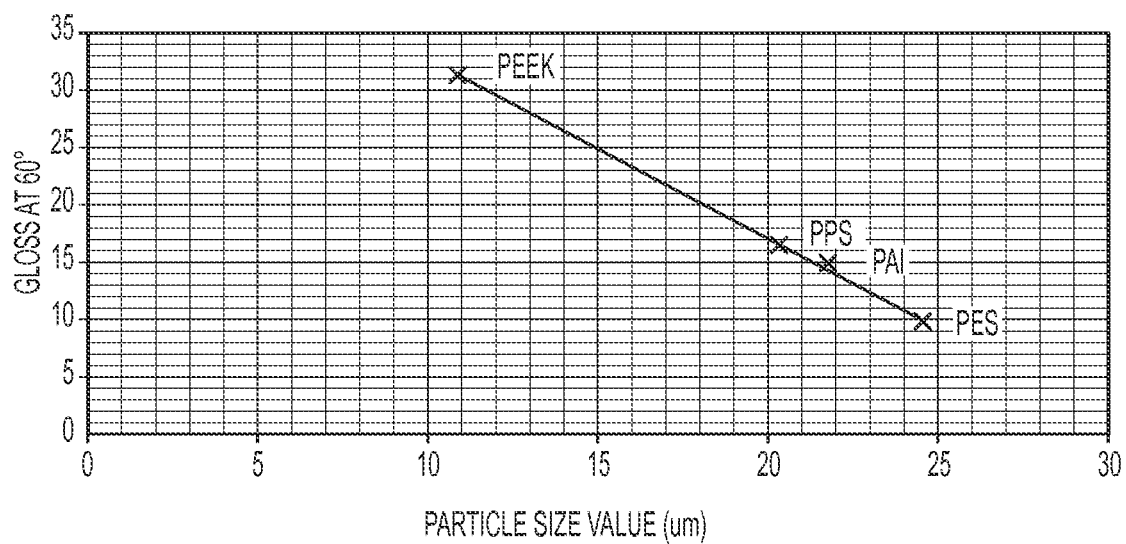


FIG. 6B

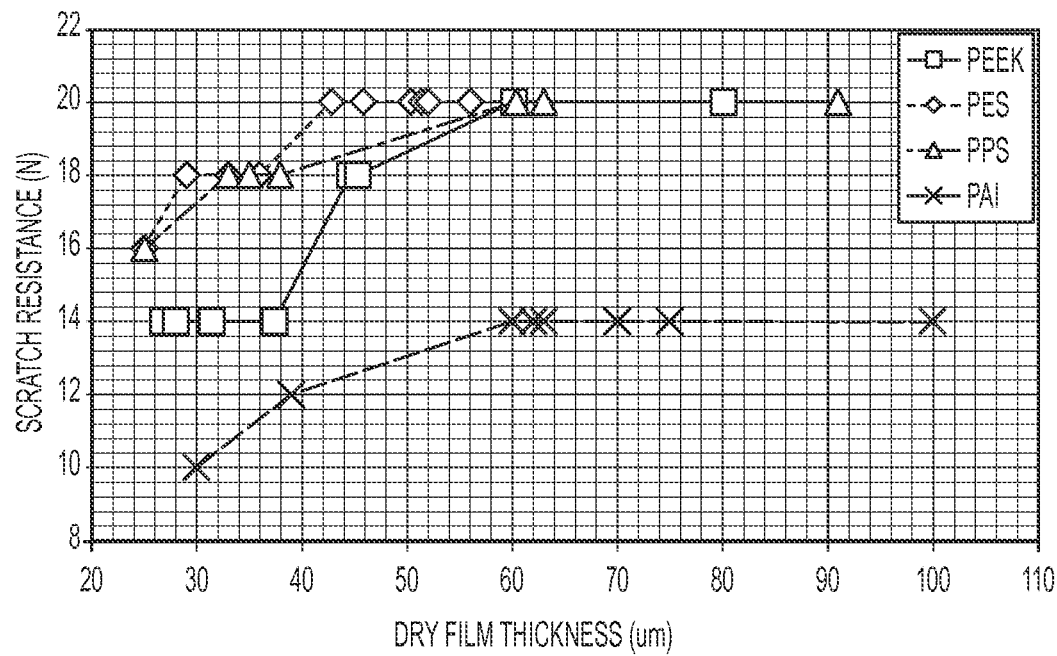


FIG. 7

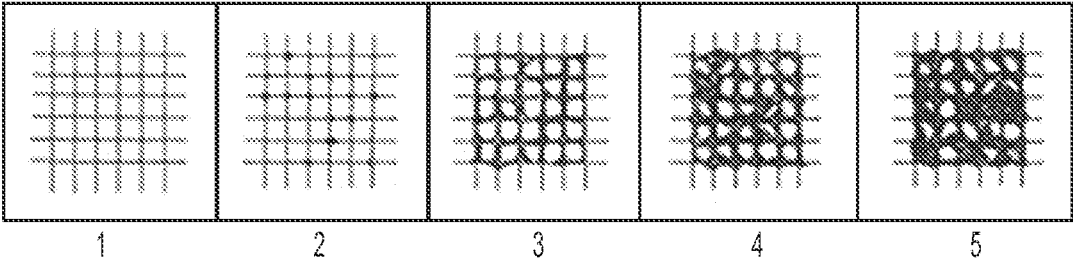


FIG. 8A

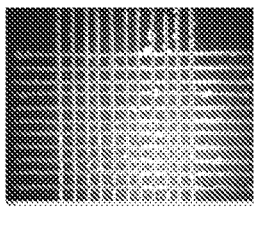
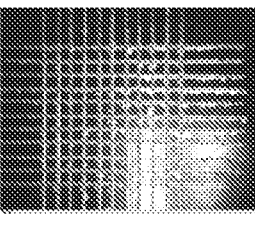
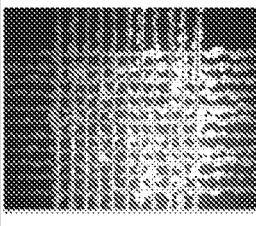
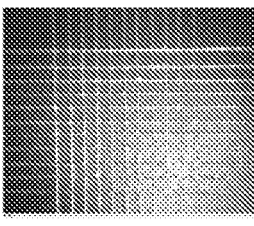
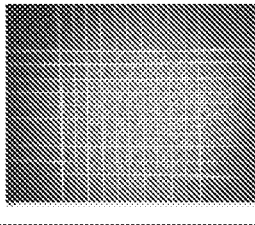
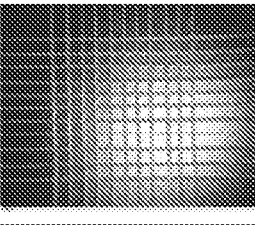
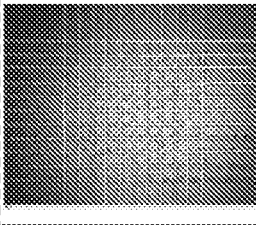
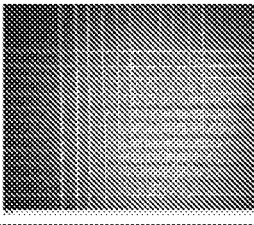
SMOOTH				
GRIT BLASTED				
	PES (B1)	PEEK (C1)	PAI (D1)	PPS (A1)

FIG. 8B

9/13

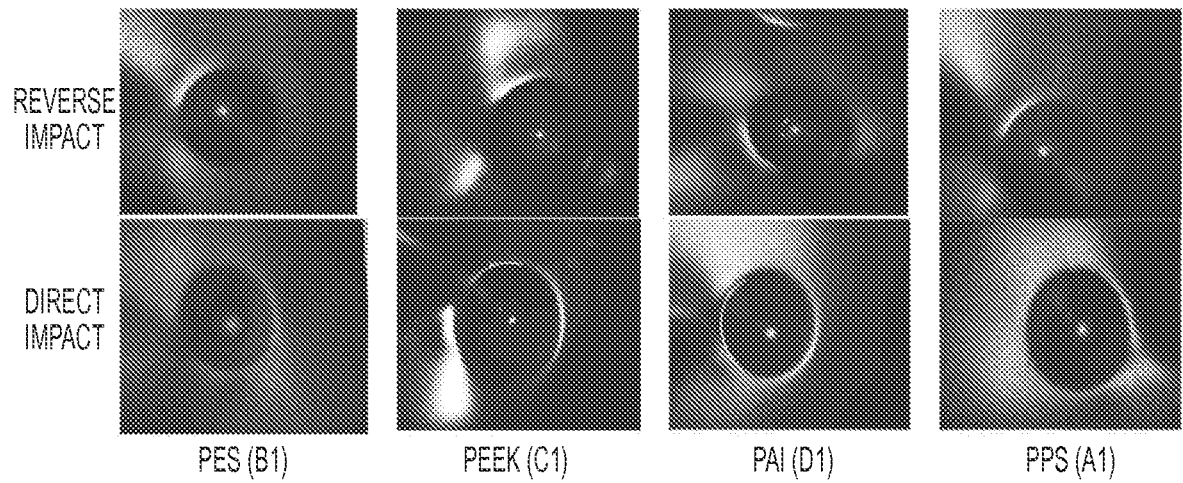


FIG. 9

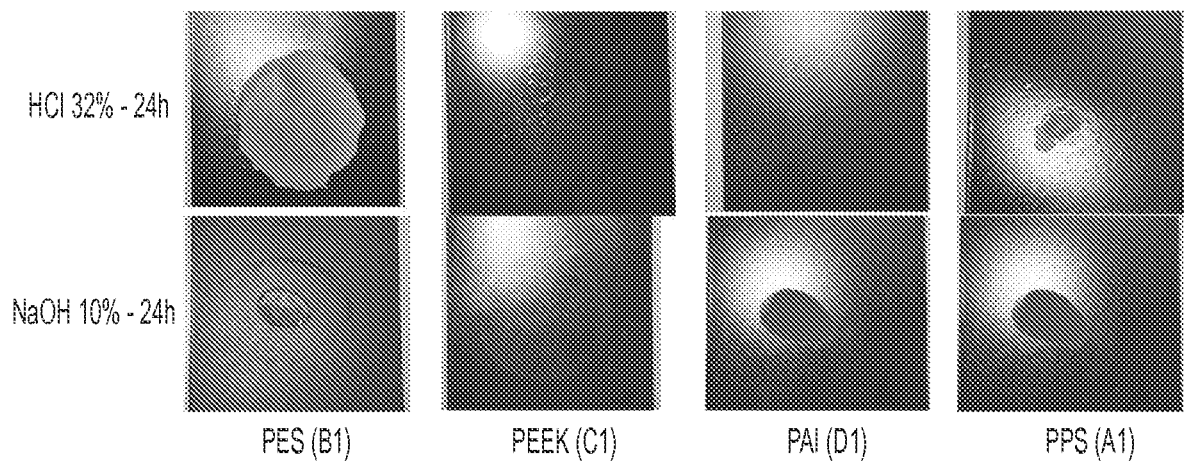


FIG. 10

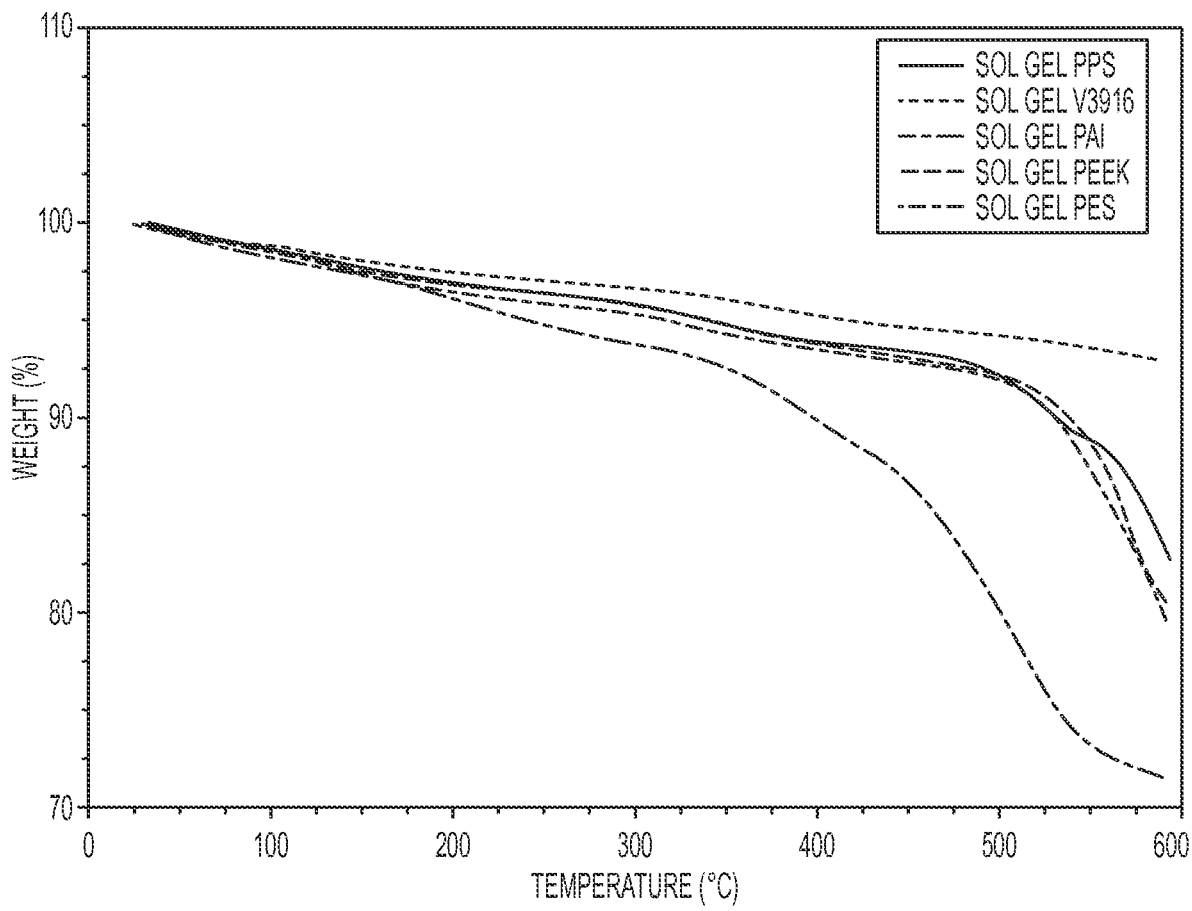


FIG. 11

11/13

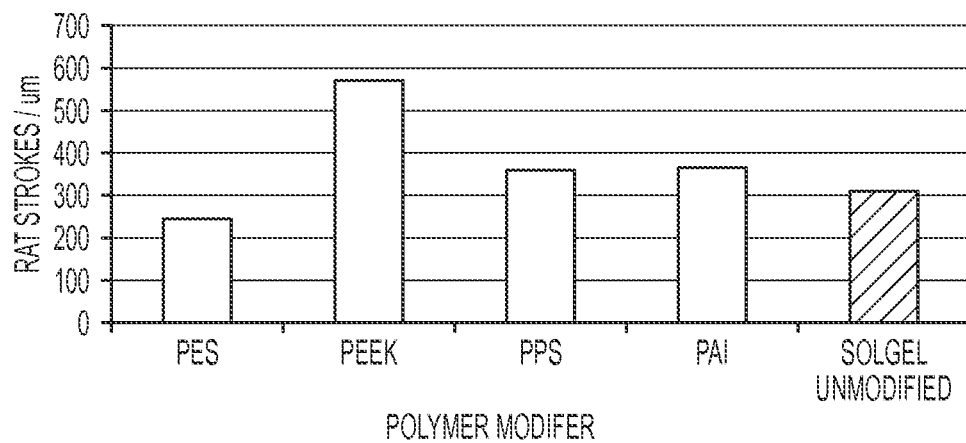


FIG. 12

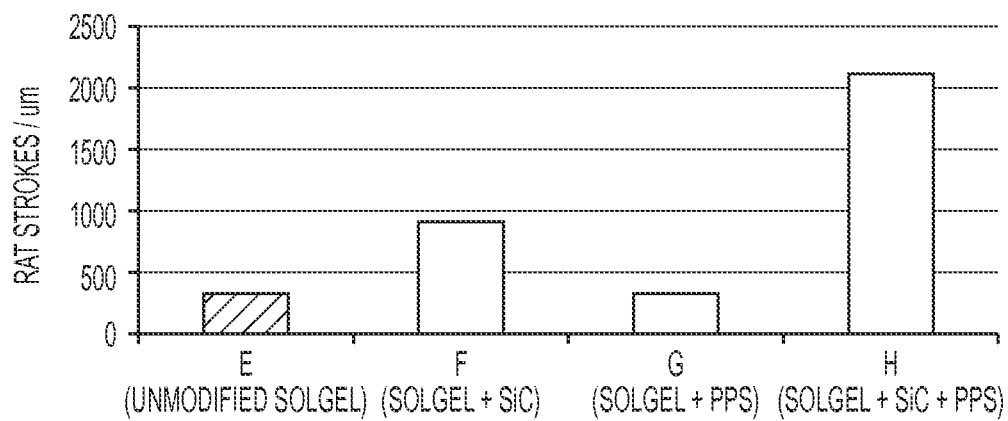


FIG. 13

12/13

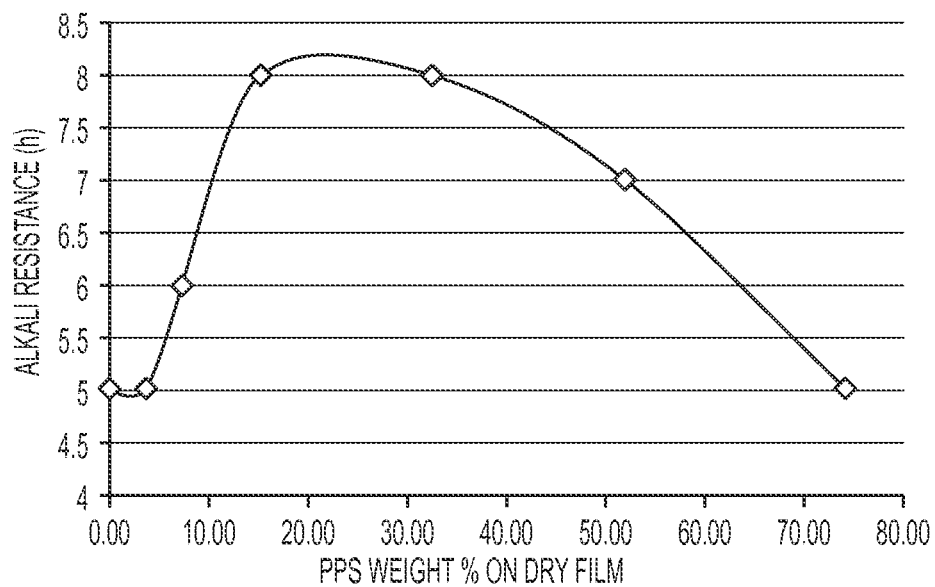


FIG. 14

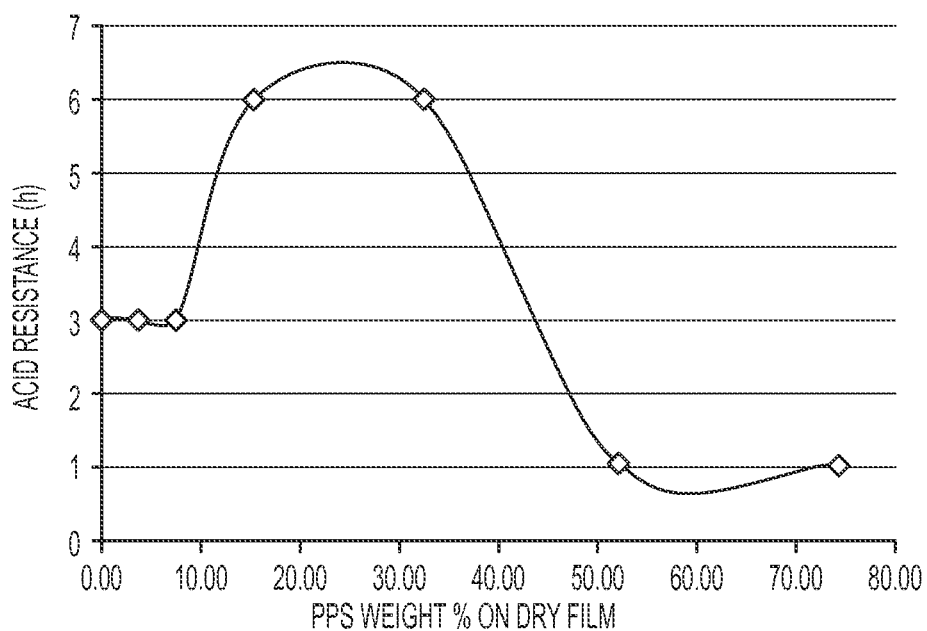


FIG. 15

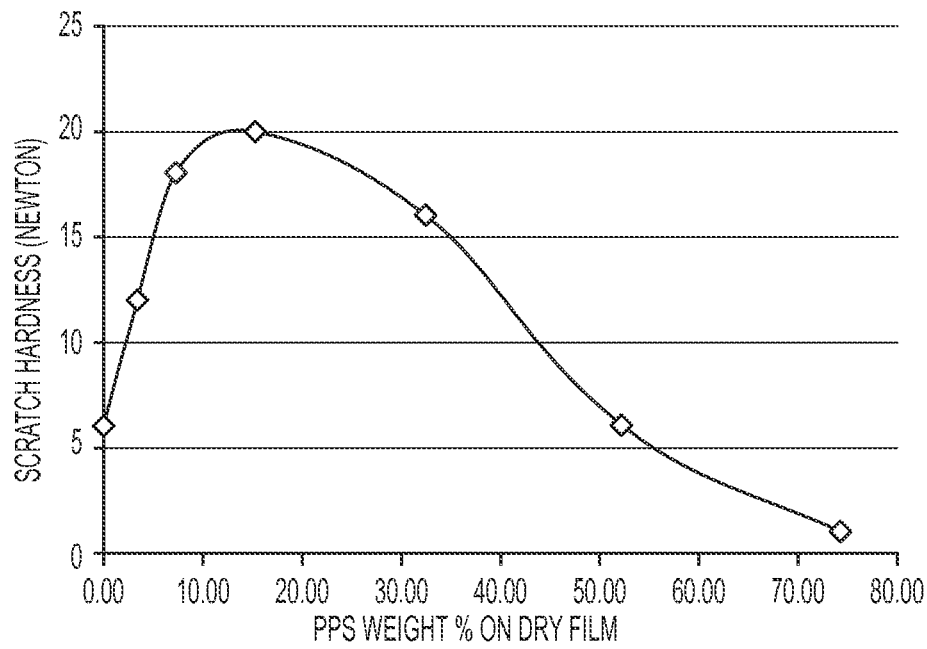


FIG. 16