

1/15

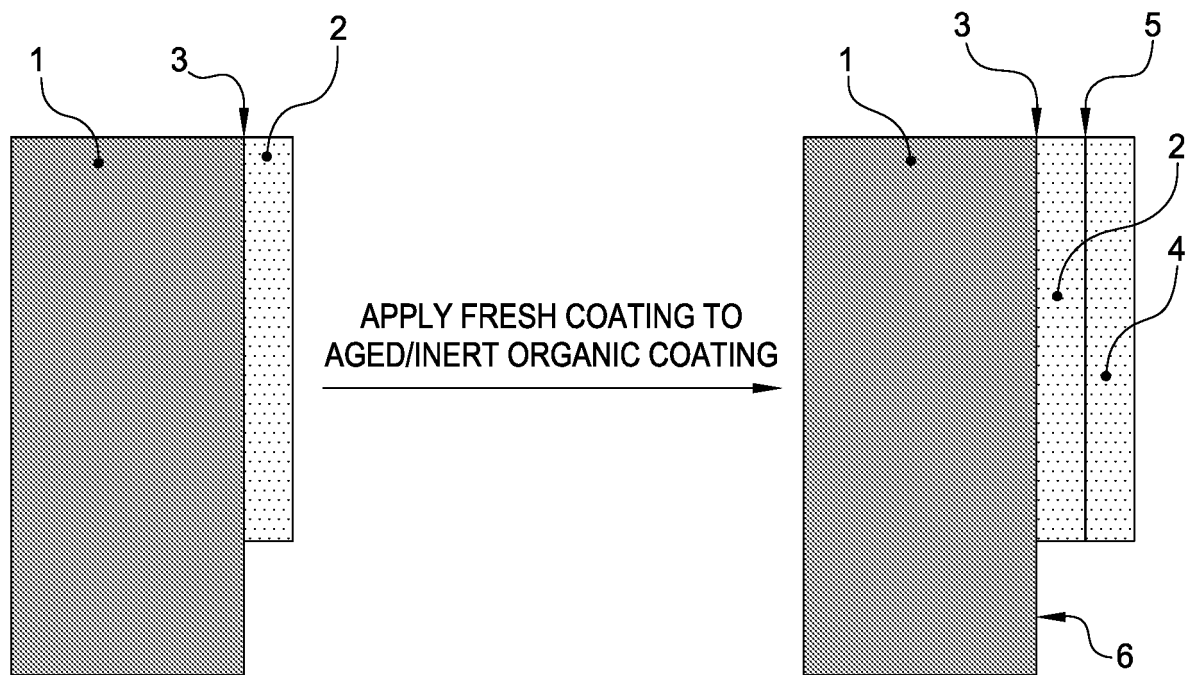
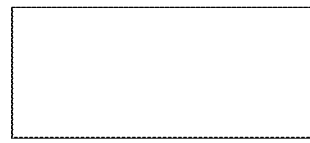
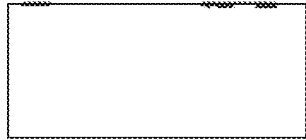
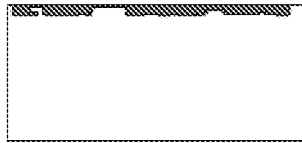
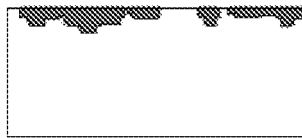
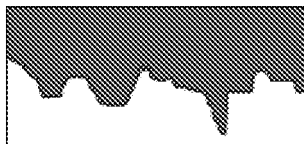


FIG. 1

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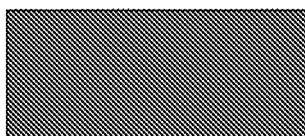
10 MAXIMUM 0.02 INCH TEAR LENGTH

9 0.02 - 0.06 INCH MAXIMUM TEAR LENGTH
AND NOT MORE THAN 1% AREA LOSS8 0.06 - 0.12 INCH MAXIMUM TEAR LENGTH
AND NOT MORE THAN 5% AREA LOSS7 0.12 - 0.25 INCH MAXIMUM TEAR LENGTH
AND NOT MORE THAN 10% AREA LOSS6 0.25 - 0.5 INCH MAXIMUM TEAR LENGTH
AND NOT MORE THAN 25% AREA LOSS5 25 PERCENT LOSS OF COATING OR
MAXIMUM 0.75 INCH LOSS LENGTH4 40 PERCENT LOSS OF COATING OR
LOSS BEYOND 0.75 INCH ANY LOCATION

3 50 PERCENT LOSS OF COATING



2 75 PERCENT LOSS OF COATING



1 100 PERCENT LOSS OF COATING

FIG. 2

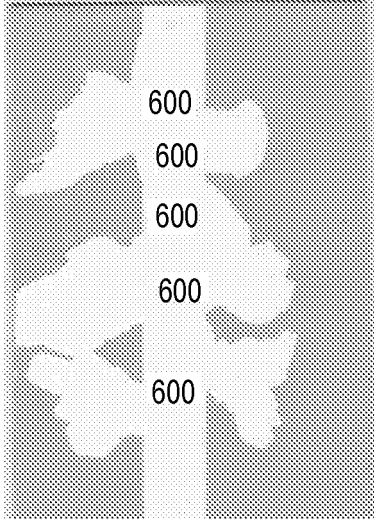
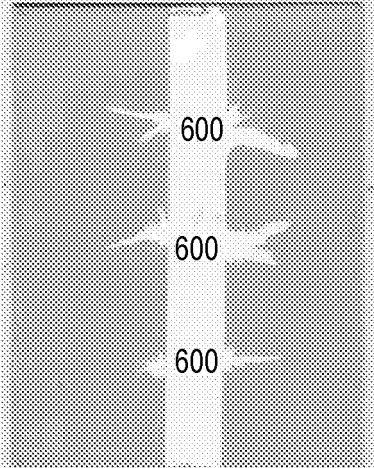
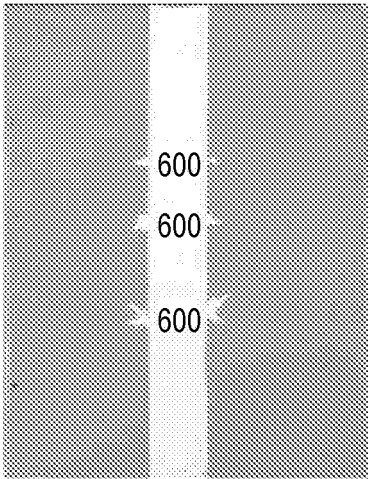
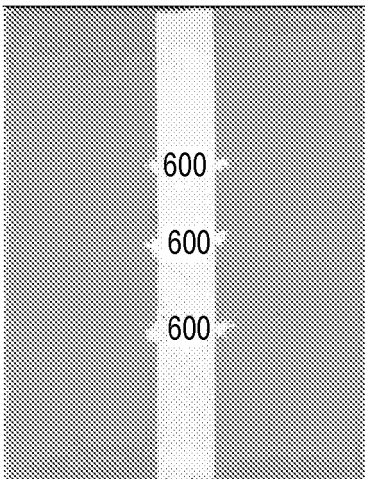
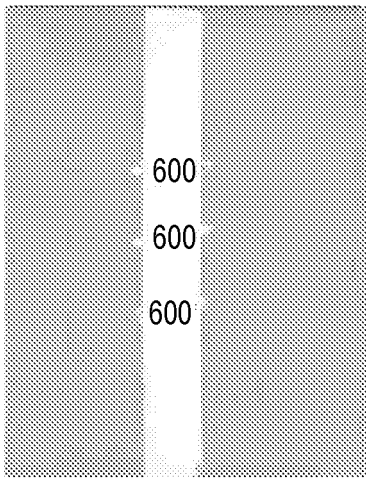
		
UNTREATED 68 F, 18% RH(4.2 mb)	AT-1 68 F, 18% RH(4.2 mb)	
		
AT-1 MODIFIED WITH 0.05% CARBON BLACK 68 F, 18% RH(4.2 mb)	AT-1 MODIFIED WITH 0.005% CARBON BLACK 68 F, 18% RH(4.2 mb)	*AT-1 AT AMBIENT 68F, 44% RH (10.3 mb)

FIG. 3

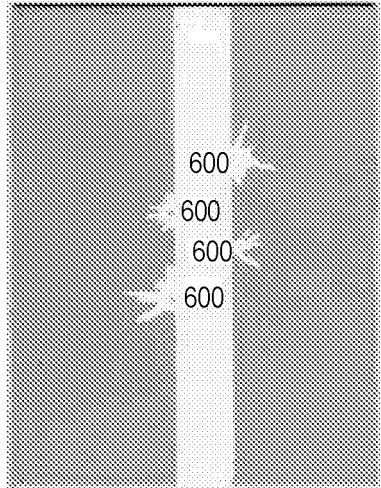
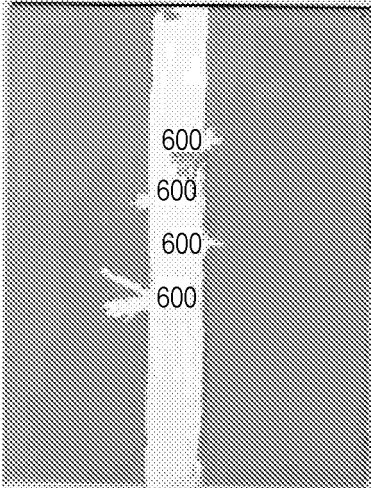
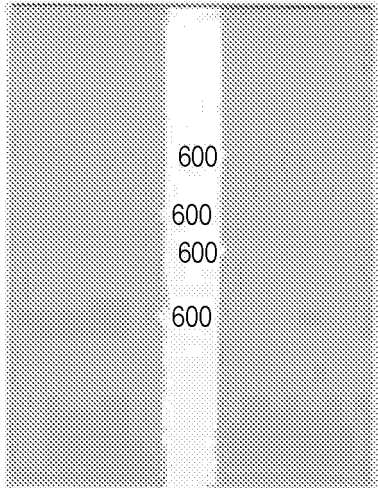
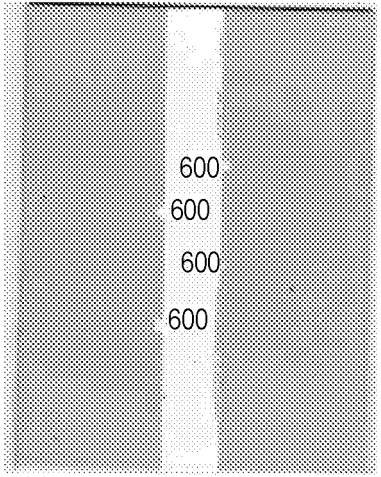
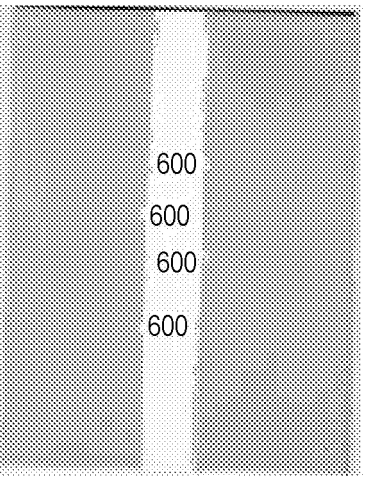
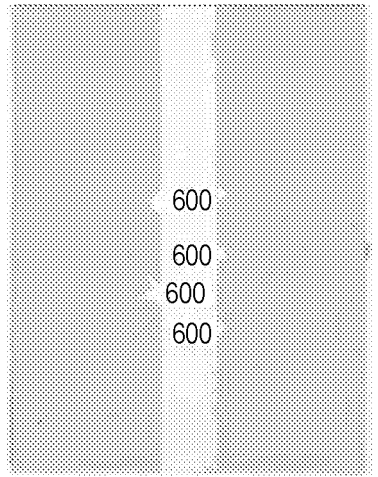
		
UNTREATED 70F, 12-14% RH: (3.0 TO 3.5 mb)	AT-1 70F, 12-14% RH: (3.0 TO 3.5 mb)	*AT-1 AT AMBIENT 68F, 43% RH (10.1 mb)
		
AT-1 MODIFIED WITH 0.005% SPECIAL BLACK 5 70F, 12-14% RH: (3.0 TO 3.5 mb)	AT-1 MODIFIED WITH 0.01% SPECIAL BLACK 5 70F, 12-14% RH: (3.0 TO 3.5 mb)	AT-1 MODIFIED WITH 0.05% SPECIAL BLACK 5 70F, 12-14% RH: (3.0 TO 3.5 mb)

FIG. 4

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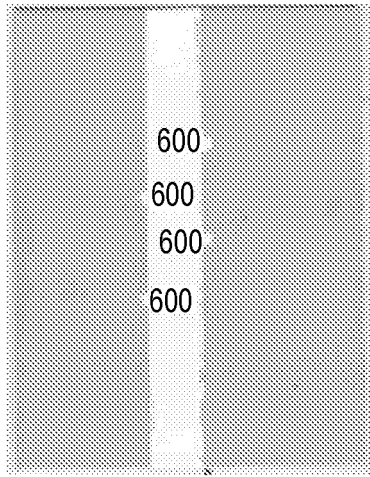
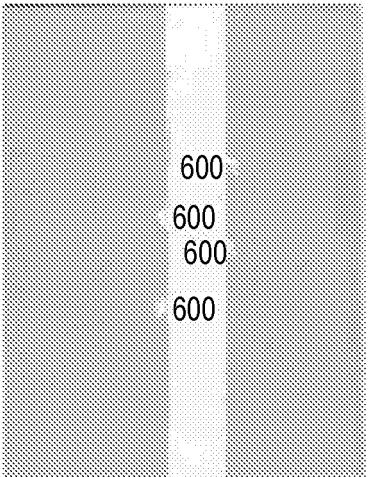
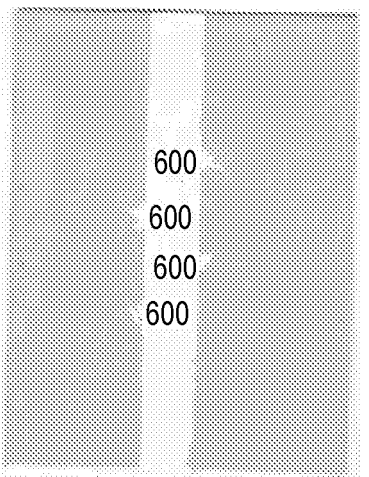
		
AT-1 MODIFIED WITH 0.005% SPECIAL BLACK 100 70F, 12-14% RH: (3.0 TO 3.5 mb)	AT-1 MODIFIED WITH 0.005% SPECIAL BLACK 100 70F, 12-14% RH: (3.0 TO 3.5 mb)	AT-1 MODIFIED WITH 0.01% SPECIAL BLACK 100 70F, 12-14% RH: (3.0 TO 3.5 mb)

FIG. 4
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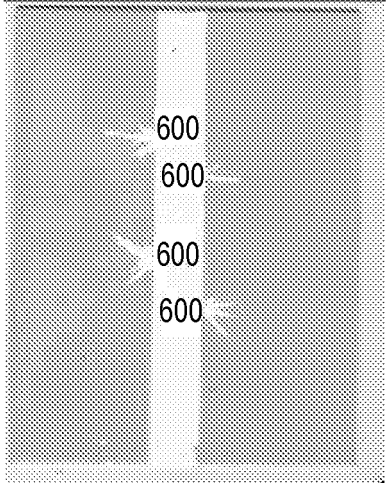
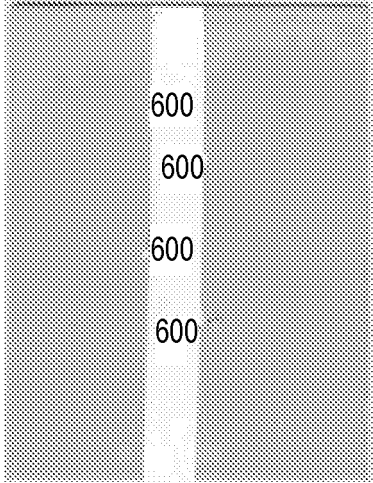
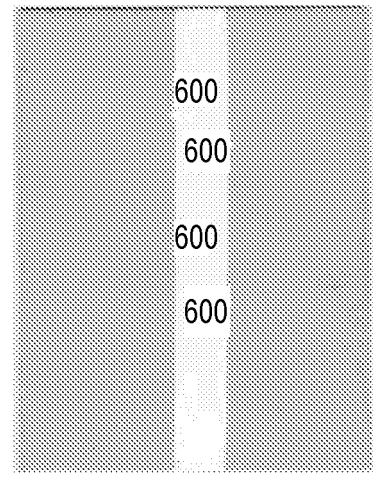
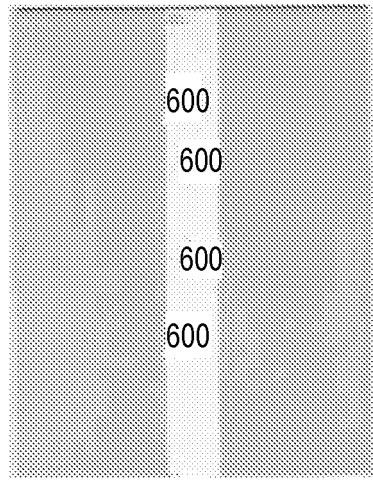
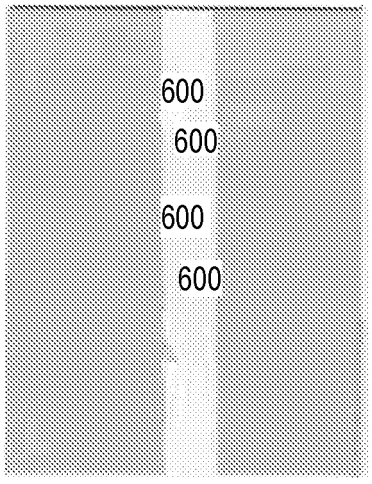
		
UNTREATED 68F, 43% RH (10.1 mb)	AT-1 68F, 43% RH (10.1 mb)	
		
AT-1 MODIFIED WITH 0.005% SPECIAL BLACK 5 68F, 43% RH (10.1 mb)	AT-1 MODIFIED WITH 0.01% SPECIAL BLACK 5 68F, 43% RH (10.1 mb)	AT-1 MODIFIED WITH 0.05% SPECIAL BLACK 5 68F, 43% RH (10.1 mb)

FIG. 5

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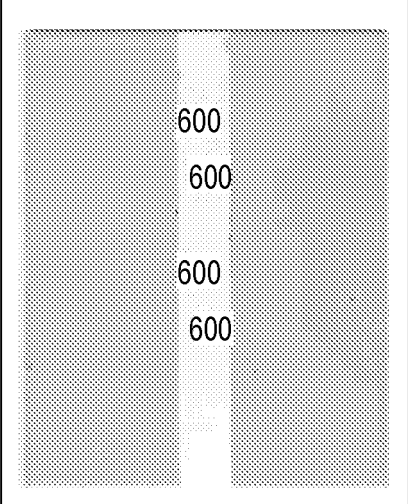
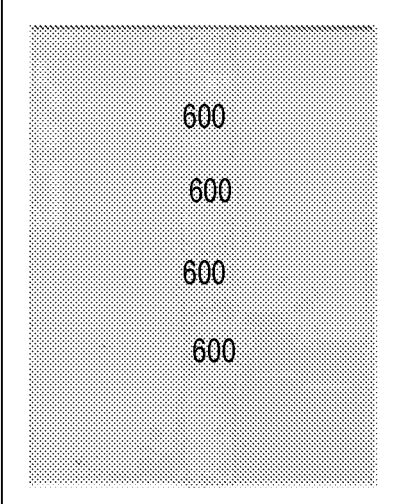
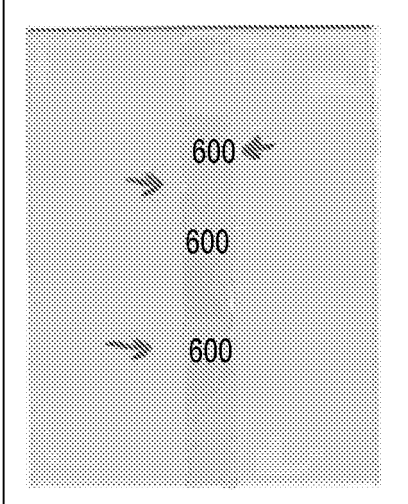
		
AT-1 MODIFIED WITH 0.005% SPECIAL BLACK 100 68F, 43% RH (10.1 mb)	AT-1 MODIFIED WITH 0.01% SPECIAL BLACK 100 68F, 43% RH (10.1 mb)	AT-1 MODIFIED WITH 0.05% SPECIAL BLACK 100 68F, 43% RH (10.1 mb)

FIG. 5
CONTINUED

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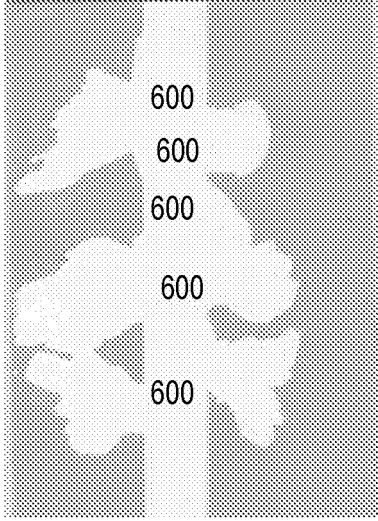
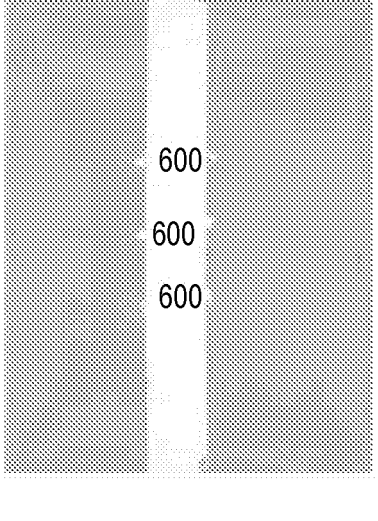
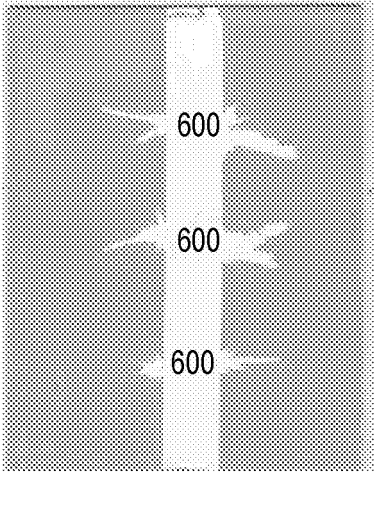
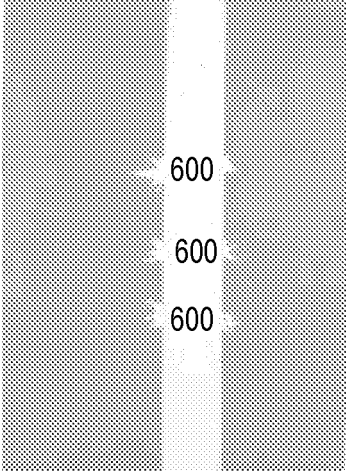
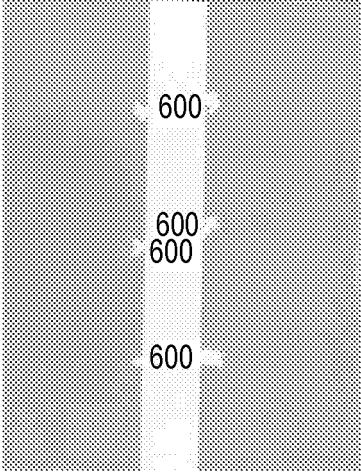
		
UNTREATED 68F, 44% RH(10.3 mb)	AT-1 68F, 44% RH(10.3 mb)	AT-1 68F, 18% RH(4.2 mb)
		
	AT-1 MODIFIED WITH 0.1% ZrO 68F, 44% RH(10.3 mb)	AT-1 MODIFIED WITH 0.1% ZrO 68F, 18% RH(4.2 mb)

FIG. 6

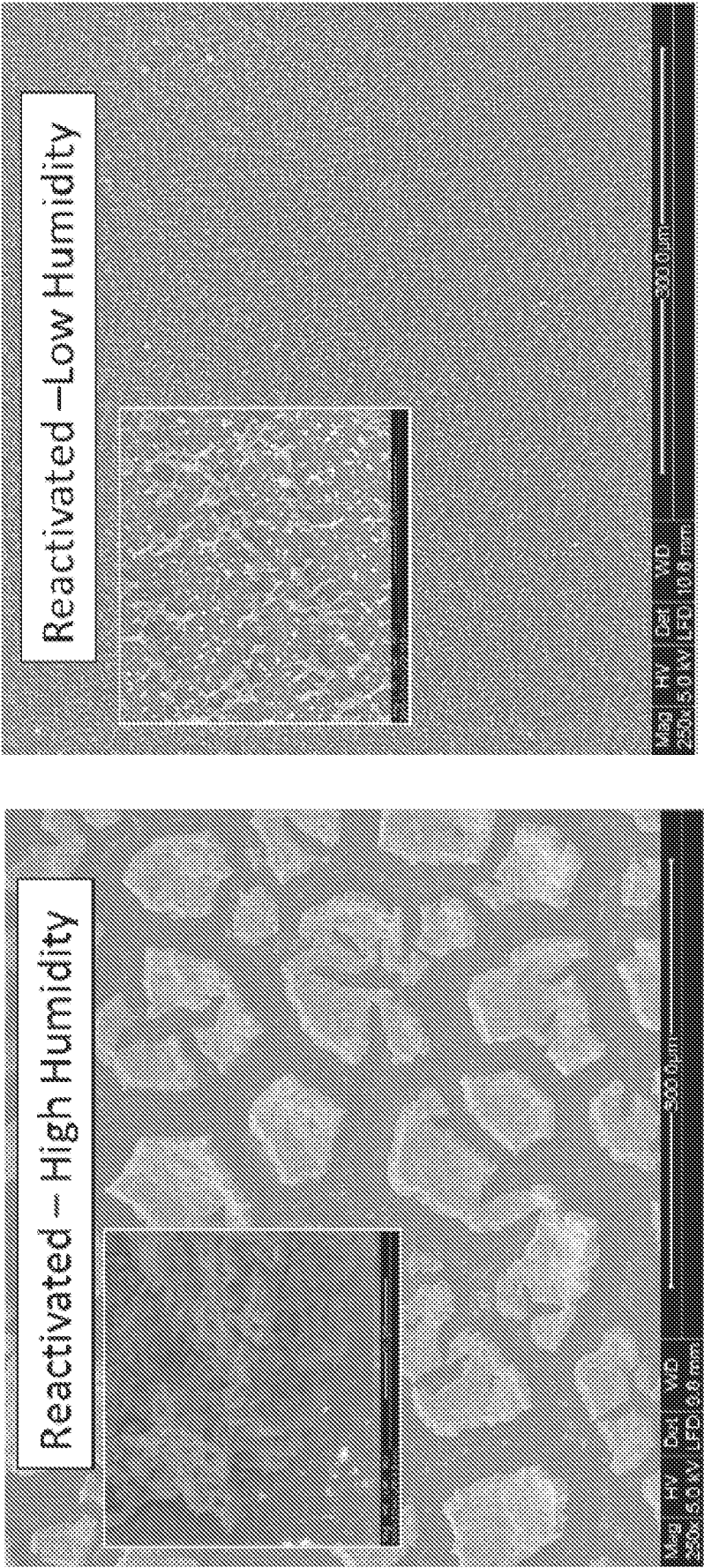


FIG. 7

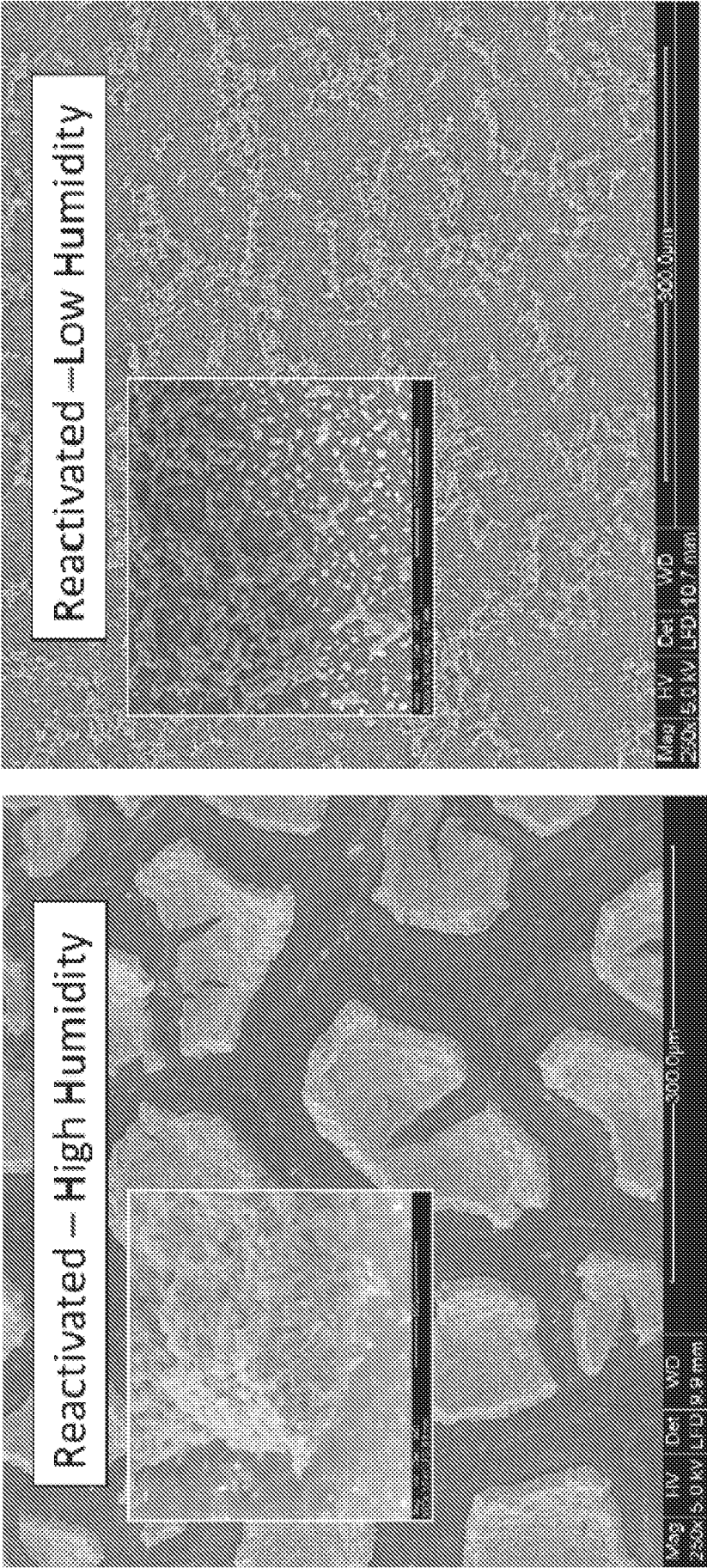


FIG. 8

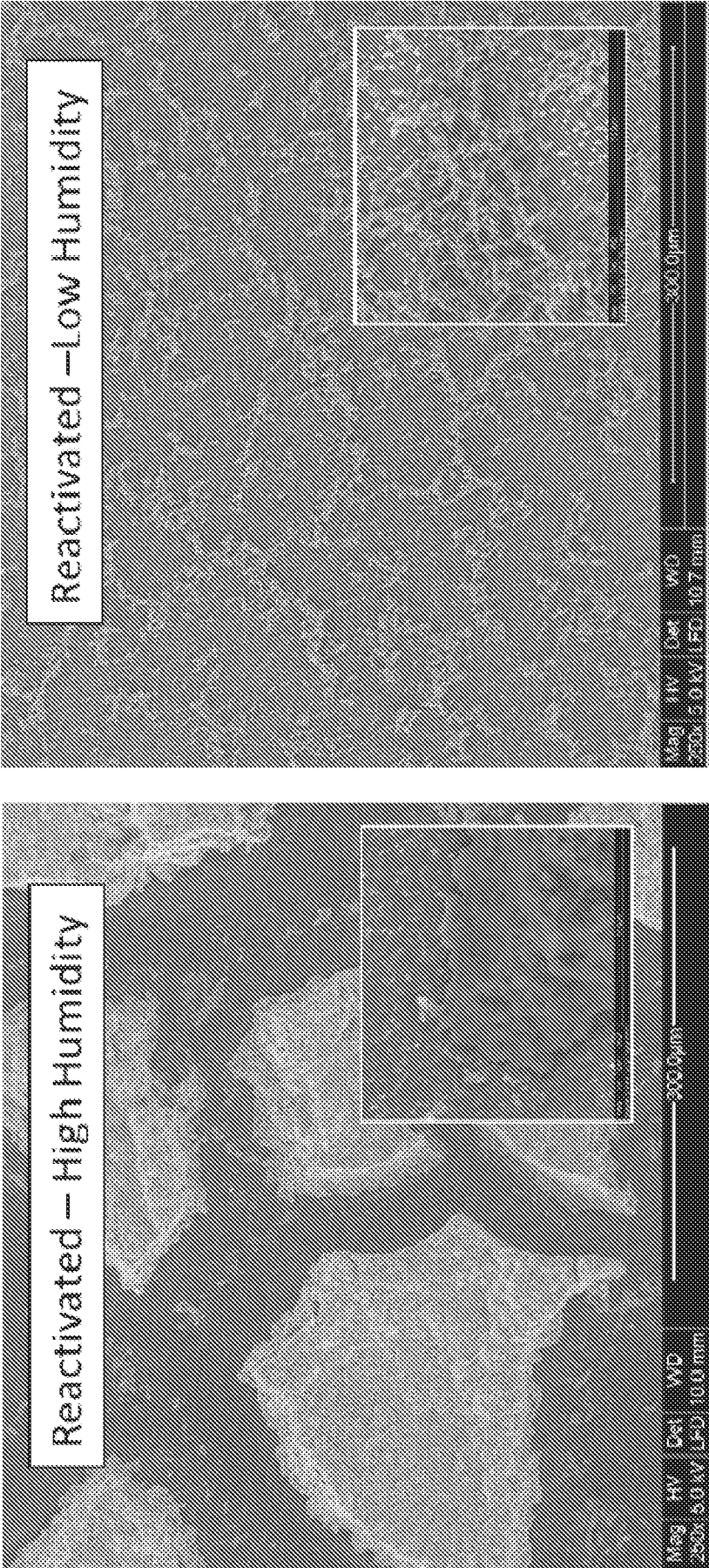


FIG. 9

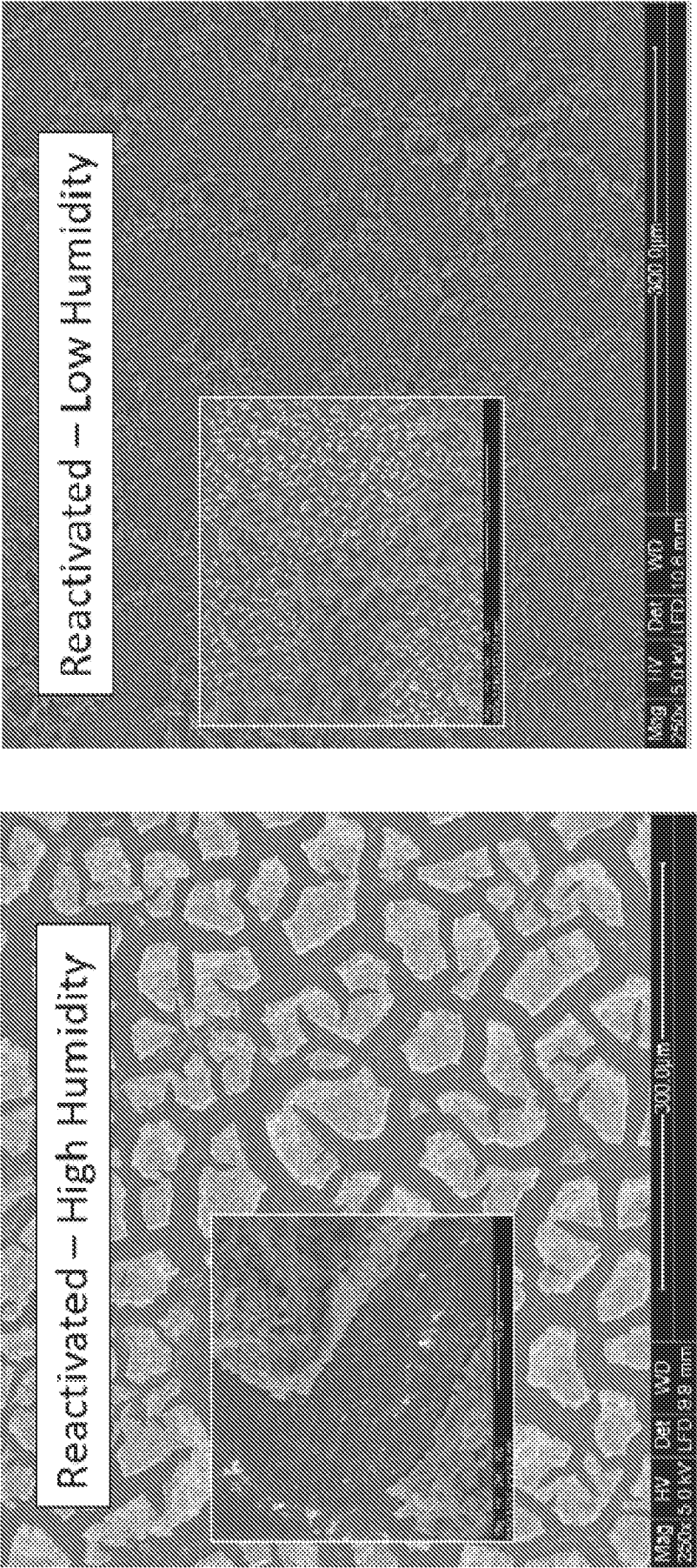
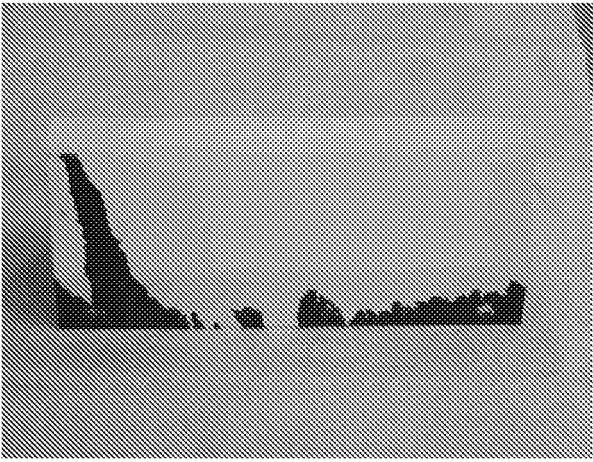
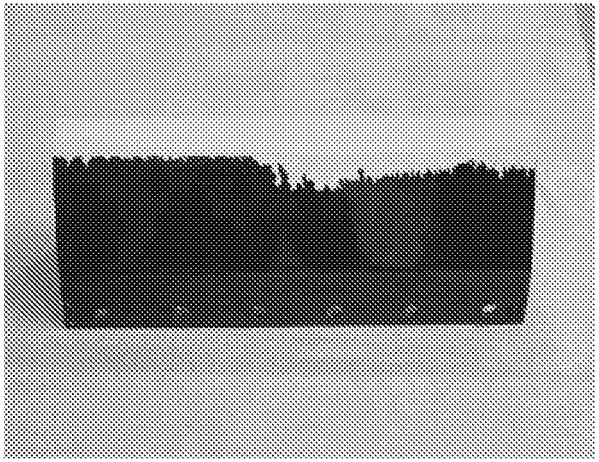
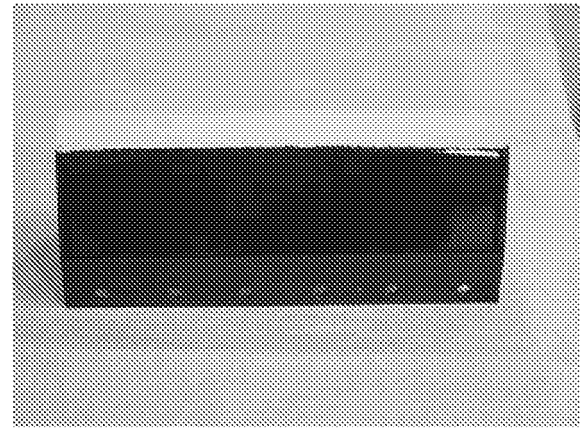
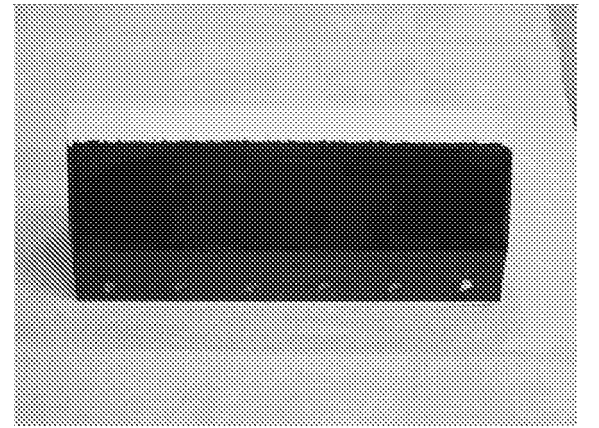
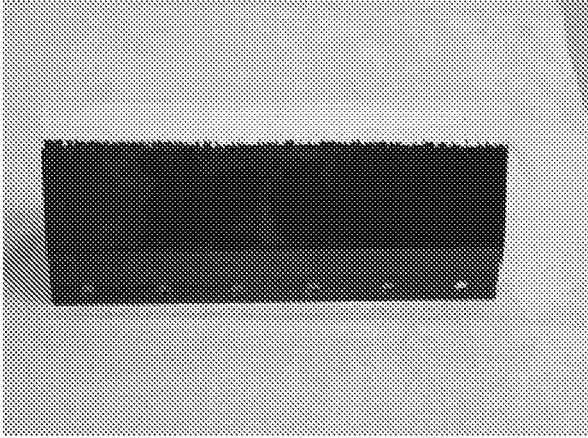
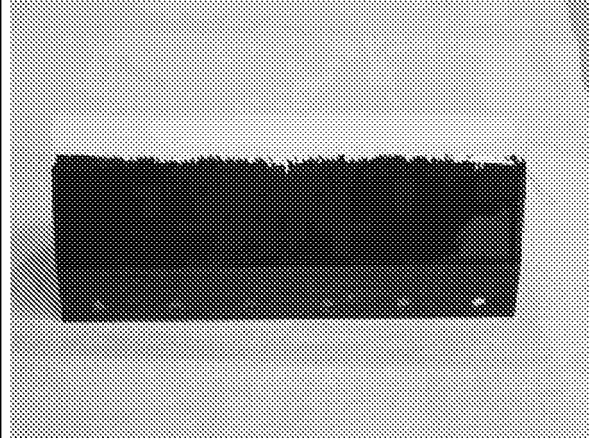
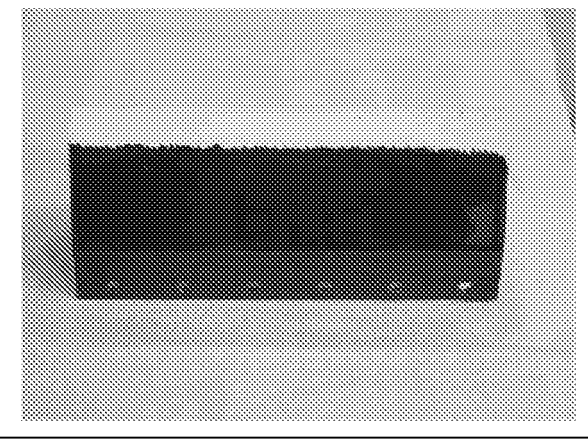
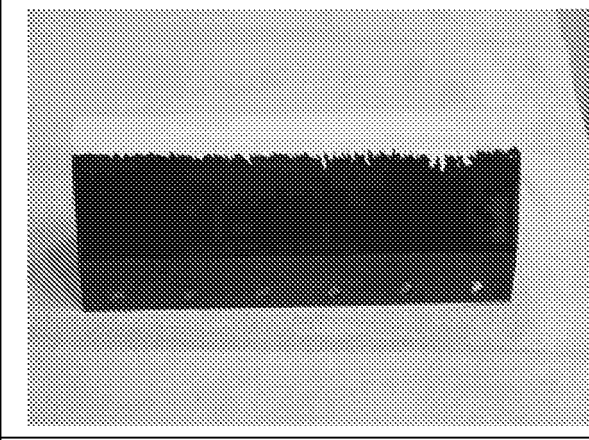


FIG. 10

	
EXAMPLE 5A, TABLE 2 NO SAND	EXAMPLE 5B, TABLE 2 AT-1
	
EXAMPLE 5C, TABLE 2 SANDED	EXAMPLE 6, TABLE 2 0.5% 20nm ALUMINUM OXIDE IN AT-1

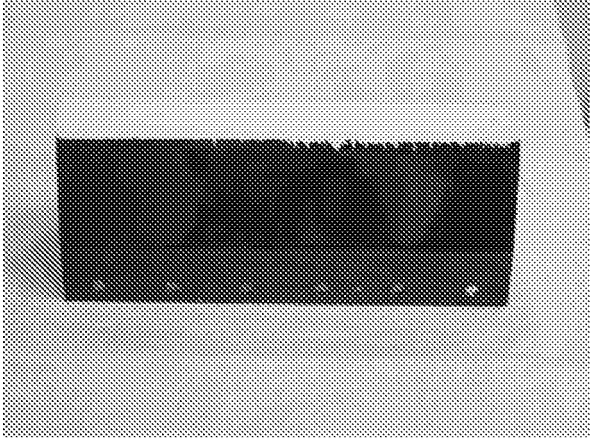
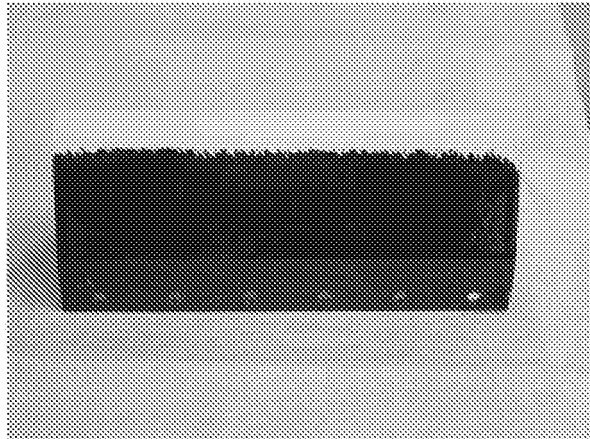
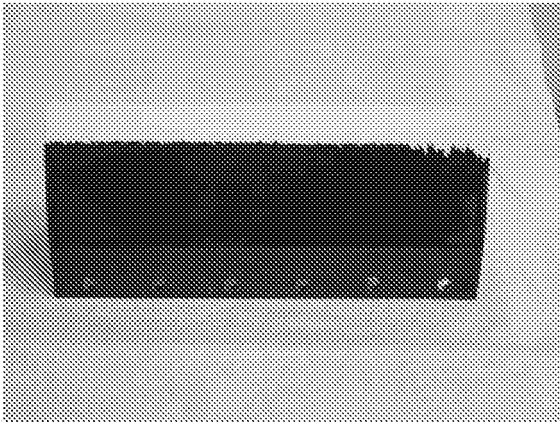
*PER STANDARD TEST PROTOCOL, THE LAST 0.25 INCH OF EACH END OF THE FOIL IS NOT USED IN THE TEAR EVALUATION DUE TO END EFFECTS AND HANDLING DURING TEST PREPARATION.

FIG. 11

	
EXAMPLE 7, TABLE 2 0.1% 80 nm SILICON OXIDE IN AT-1	EXAMPLE 8, TABLE 2 0.1% 160 nm SILICON OXIDE IN AT-1
	
EXAMPLE 9, TABLE 2 0.1% 40 nm ALUMINUM OXIDE IN AT-1	EXAMPLE 6, TABLE 2 0.5% 40nm ALUMINUM OXIDE IN AT-1

*PER STANDARD TEST PROTOCOL, THE LAST 0.25 INCH OF EACH END OF THE FOILS IS NOT USED IN THE TEAR EVALUATION DUE TO END EFFECTS AND HANDLING DURING TEST PREPARATION.

FIG. 12

	
EXAMPLE 11, TABLE 2 0.1% <50nm ALUMINUM OXIDE IN AT-1	EXAMPLE 8, TABLE 2 0.5% <50nm ALUMINUM OXIDE IN AT-1
	
EXAMPLE 13, TABLE 2 0.5% 160nm SILICON OXIDE IN AT-1	

*PER STANDARD TEST PROTOCOL, THE LAST 0.25 INCH OF EACH END OF THE FOILS IS NOT USED IN THE TEAR EVALUATION DUE TO END EFFECTS AND HANDLING DURING TEST PREPARATION.

FIG. 13