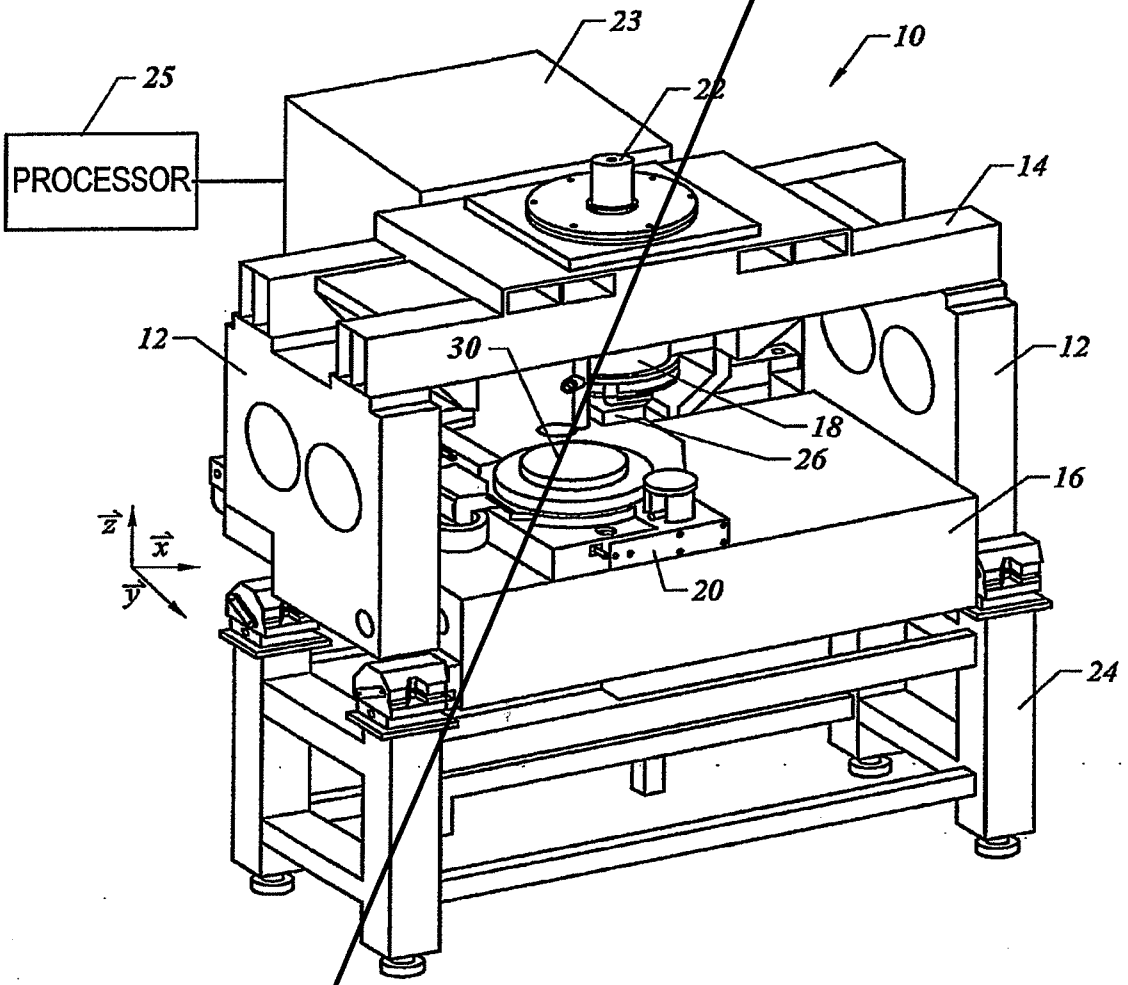


FIG. 1

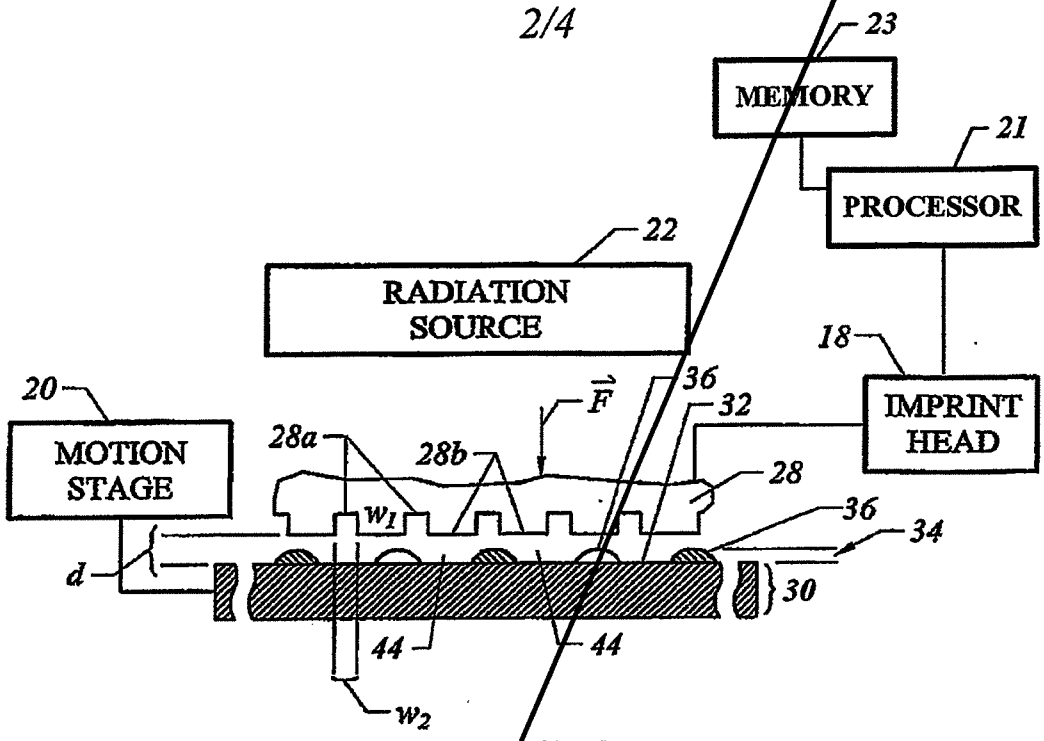


FIG. 2

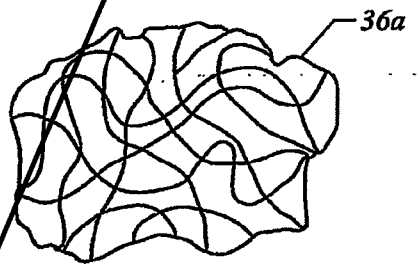


FIG. 3

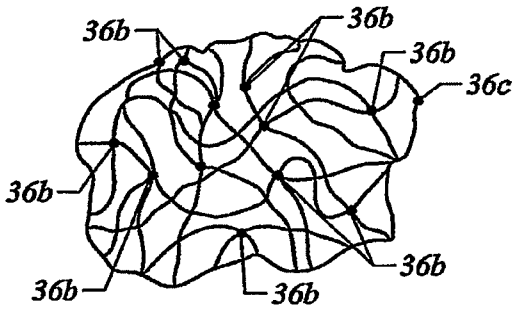


FIG. 4

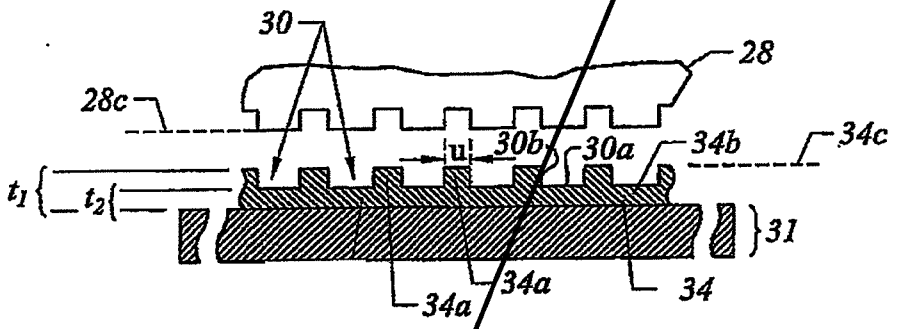

30
28
28c
u
30b
30a
34b
34c
t_1
t_2
31
34a
34a
34

FIG. 5

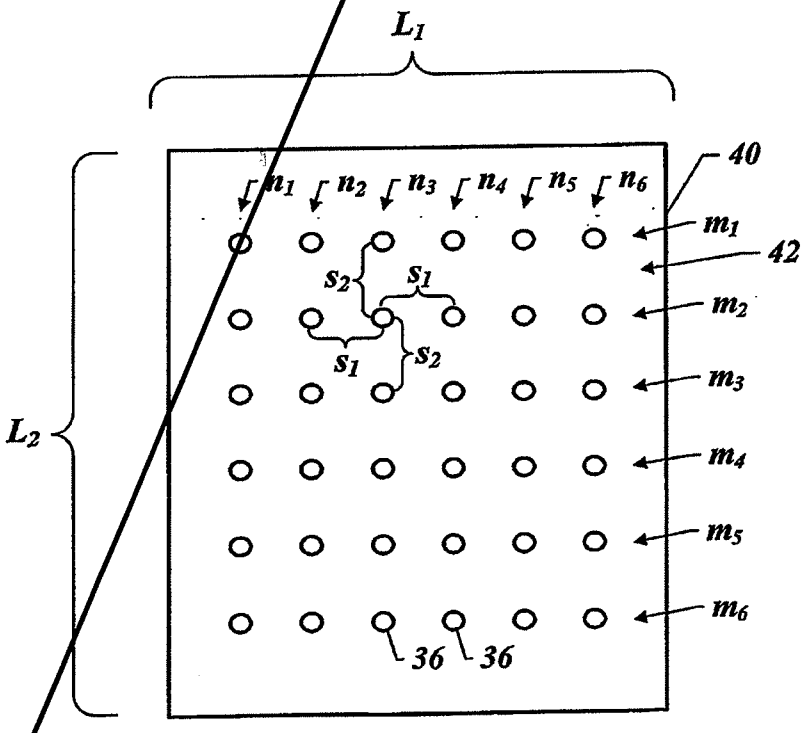

L_1
L_2
40
n_1 n_2 n_3 n_4 n_5 n_6
m_1
42
m_2
m_3
m_4
m_5
m_6
s_2
s_1
s_1
s_2
36
36

FIG. 6

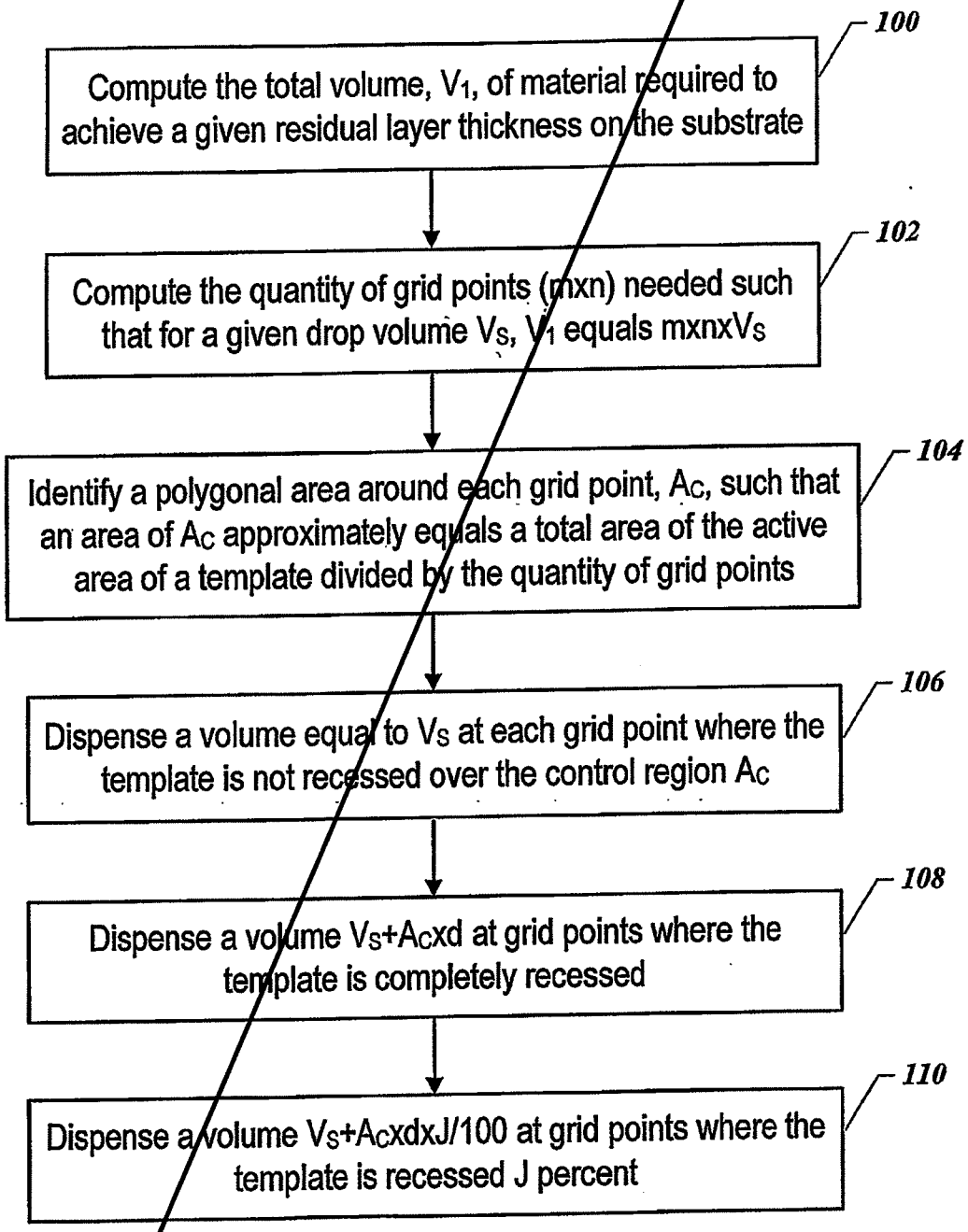
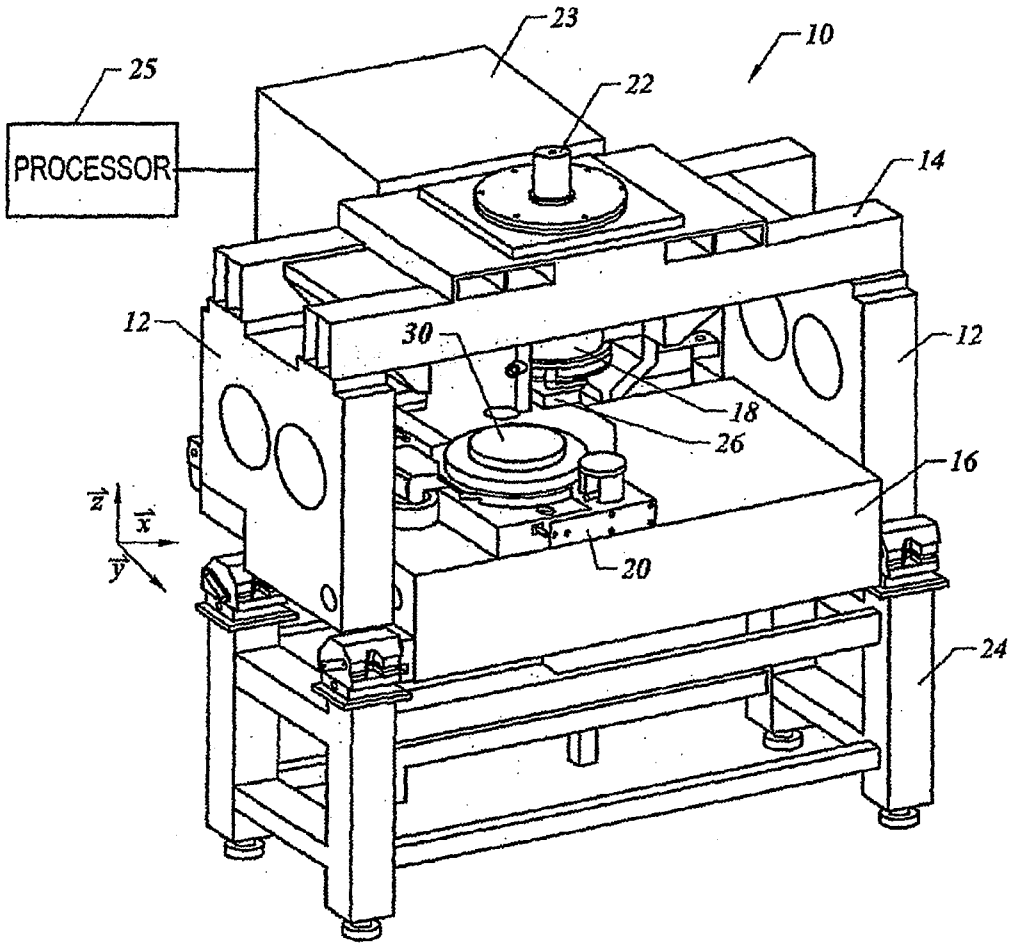

100
Compute the total volume, V_1, of material required to achieve a given residual layer thickness on the substrate
102
Compute the quantity of grid points (mxn) needed such that for a given drop volume V_S, V_1 equals mxnxV_S
104
Identify a polygonal area around each grid point, A_C, such that an area of A_C approximately equals a total area of the active area of a template divided by the quantity of grid points
106
Dispense a volume equal to V_S at each grid point where the template is not recessed over the control region A_C
108
Dispense a volume V_S+$A_C$xd at grid points where the template is completely recessed
110
Dispense a volume V_S+$A_C$xdxJ/100 at grid points where the template is recessed J percent

FIG. 7


23
10
25
22
PROCESSOR
14
12
30
12
18
26
16
z
x
y
20
24

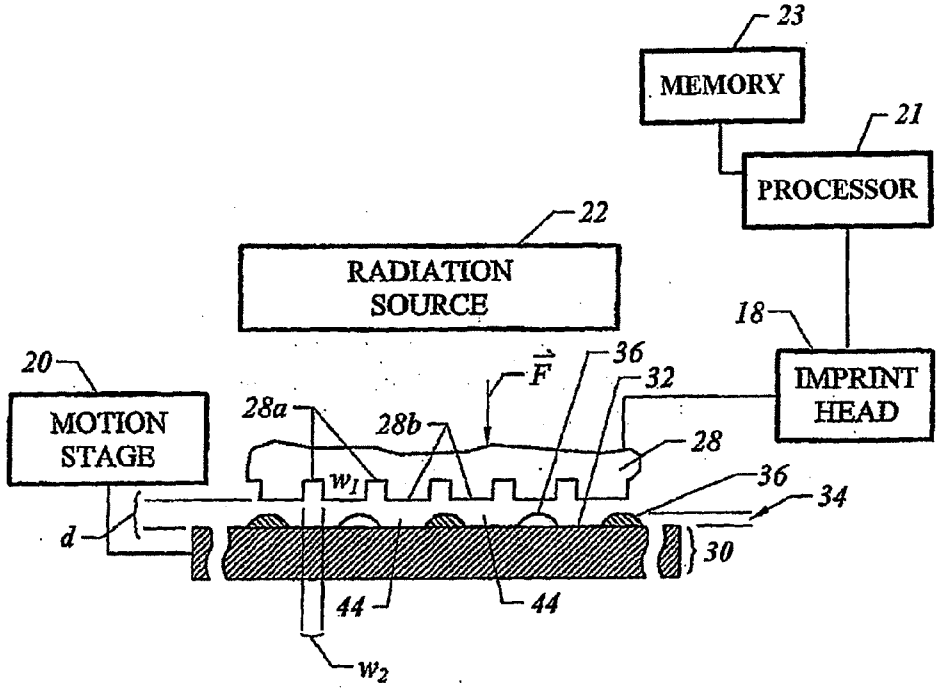


FIG. 2

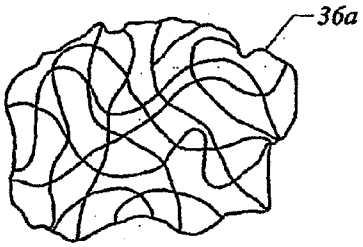


FIG. 3

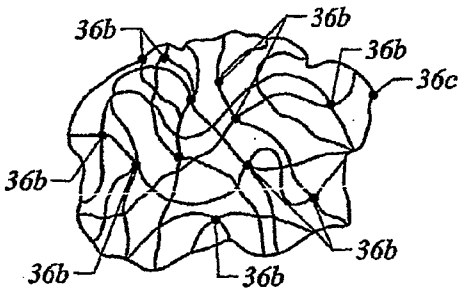


FIG. 4

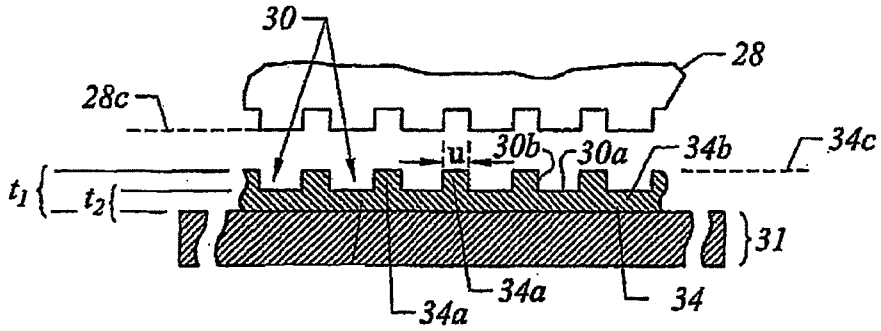

30
28
28c
u
30b
30a
34b
34c
t_1
t_2
31
34a
34a
34

FIG. 5

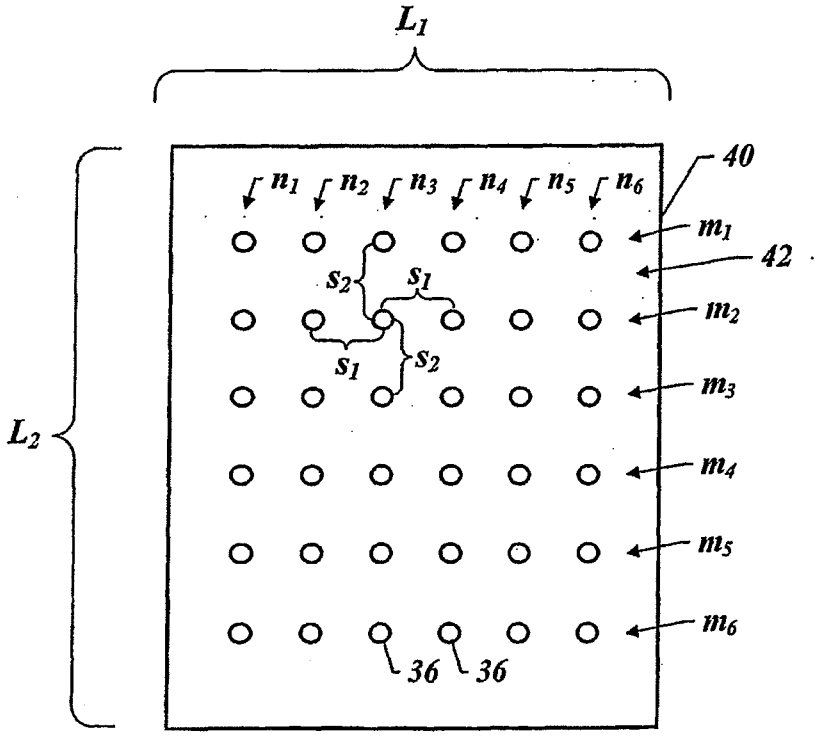

L_1
L_2
n_1 n_2 n_3 n_4 n_5 n_6
40
m_1
42
m_2
m_3
m_4
m_5
m_6
s_1
s_2
s_1
s_2
36
36

FIG. 6

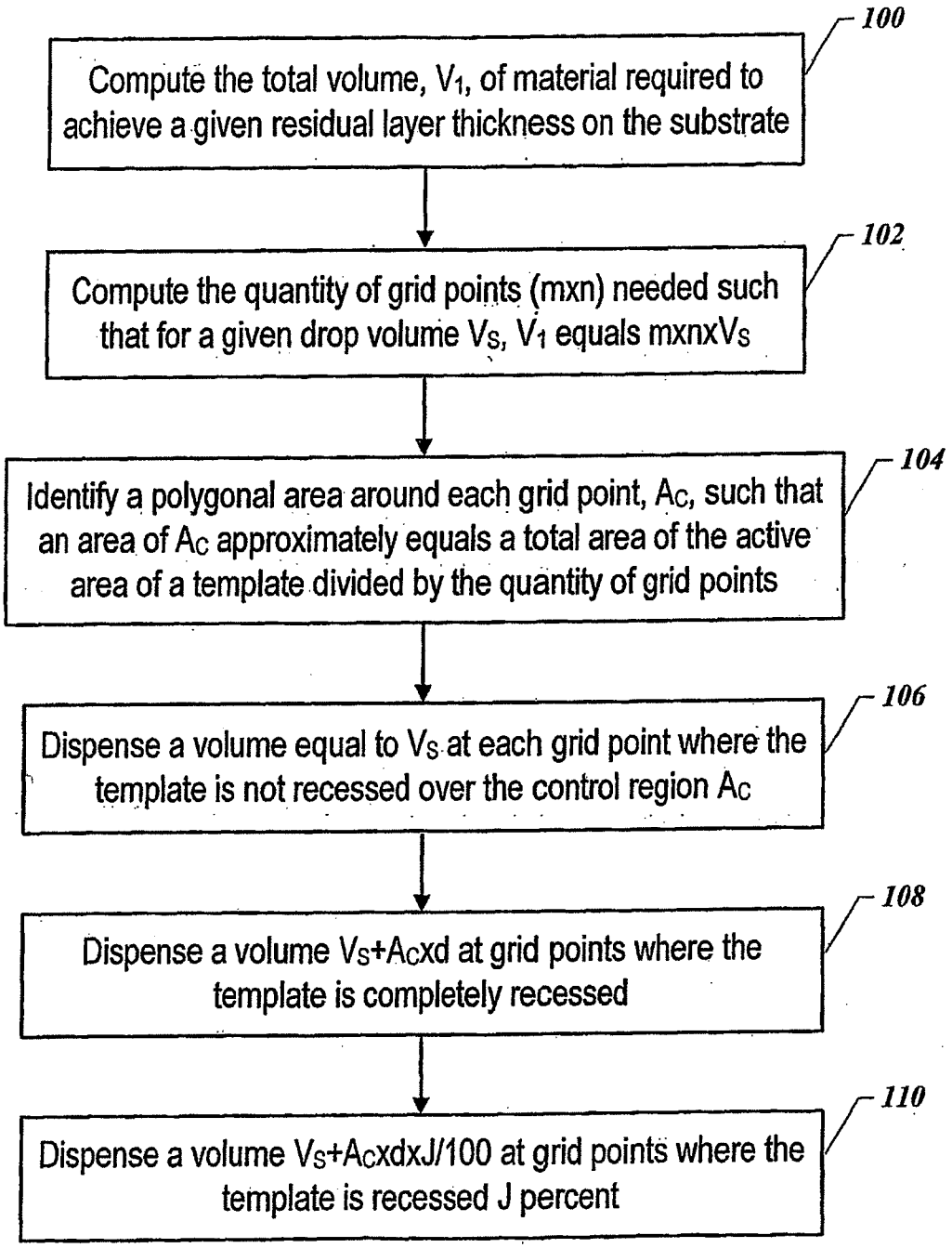

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FIG. 7