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State Table:

Gotcha Anti-Theft

Present State	Input	Next State	Out
0 0 0	0	0 0 1	0
0 0 0	1	0 0 0	0
0 0 1	0	0 1 0	0
0 0 1	1	0 0 0	0
0 1 0	0	0 1 1	0
0 1 0	1	0 0 0	0
0 1 1	0	1 0 0	0
0 1 1	1	0 0 0	0
1 0 0	0	1 0 1	0
1 0 0	1	0 0 0	0
1 0 1	0	1 1 0	0
1 0 1	1	0 0 0	0
1 1 0	0	1 1 0	0
1 1 0	1	1 1 1	0
1 1 1	0	0 0 1	0
1 1 1	1	0 0 0	1

State Diagram:

00000011

S_0 = initial state

S_1 = '0'

S_2 = '00'

S_3 = '000'

S_4 = '0000'

S_5 = '00000'

S_6 = '000000'

S_7 = '0000001'

