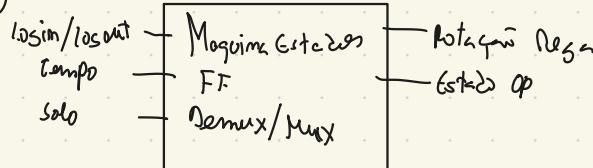
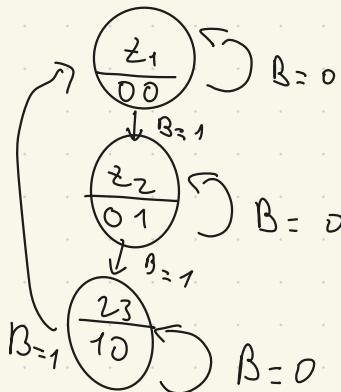


1,1)



Será utilizado um máquina de estados para verificar o pin do operador com ele identificar operador para se registrar o seu losim ou mais tarde o logon. Para gerar o registo usaremos f.f. lógicas a un somar e menor identifica o operador e abre o canal para o f.f. do mesmo. No caso da rotação das negas terá um Mux com os sensores de solo mes identificadores do canal para se perceber onde vai receber rotação.

1.2)



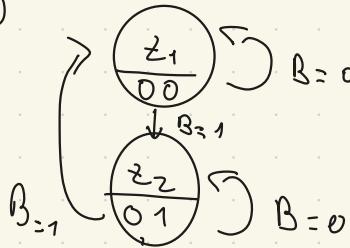
B	Ps	NS	D ₂	D ₁	D ₀
Z1 0	00	00	1	0	0
Z1 1	00	01	1	0	0
Z2 0	01	01	0	1	0
Z2 1	01	10	0	1	0
Z3 0	10	10	0	0	1
Z3 1	10	00	0	0	1

D₂

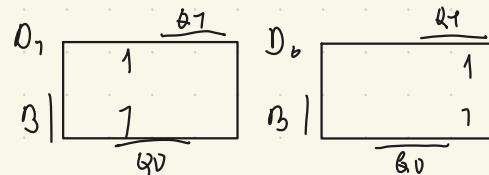
D₀

D₁

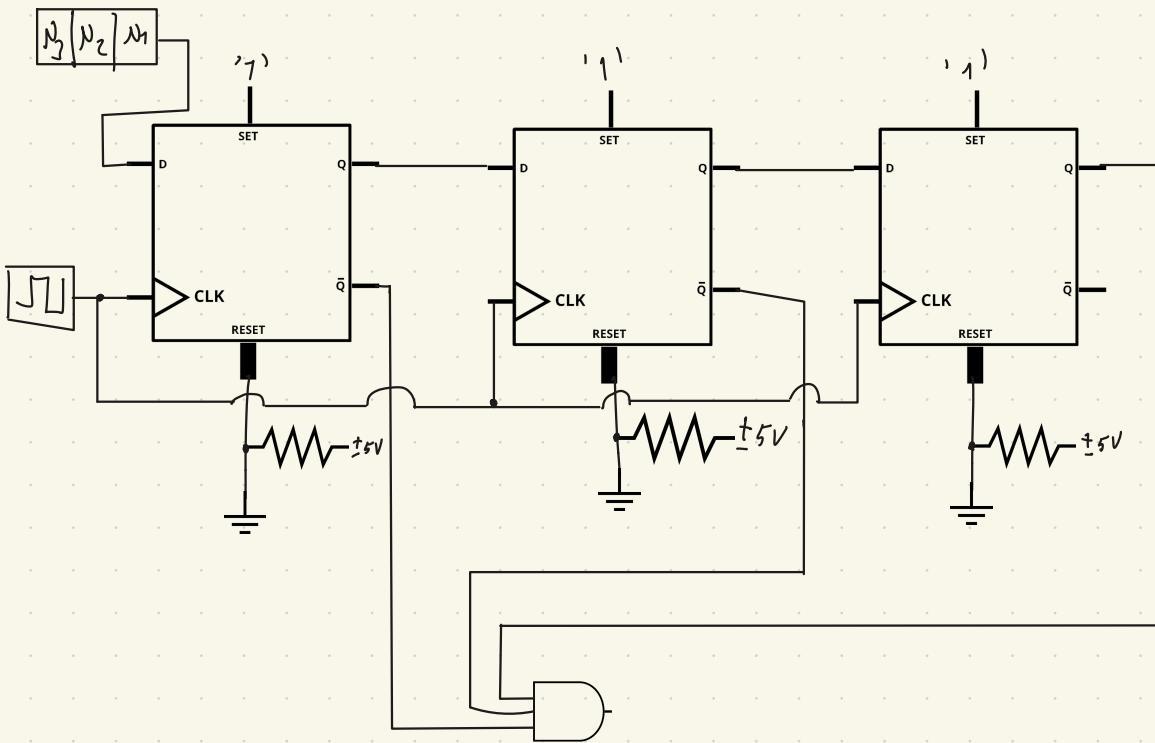
1.3)



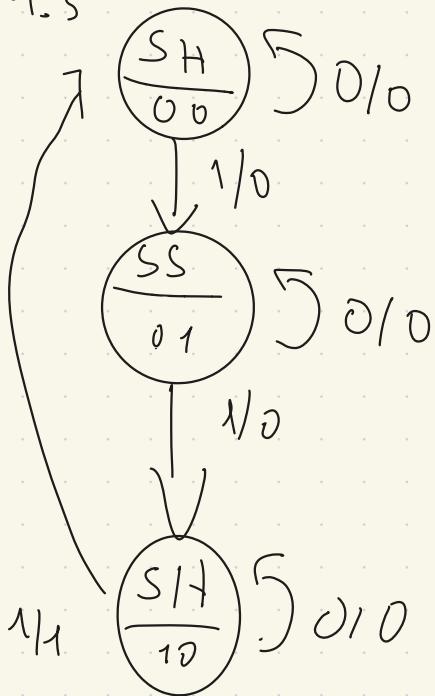
B	PS	NS	D ₂	D ₁
z ₁ 0	00	00	1	0
z ₁ 1	00	01	1	0
z ₂ 0	01	01	0	1
z ₂ 1	01	00	0	1
...



1.4) Código (1 0 0)



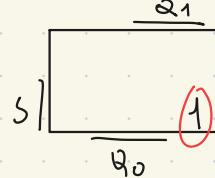
1.5



T.V

s	Ps	NS	D ₁	D ₀	Alarne
SH 0	0 0	0 0			0
1	0 0	0 1			0
SS 0	0 1	0 1			0
1	0 1	1 0			0
S1H 0	1 0	1 0			0
1	1 0	0 0			1

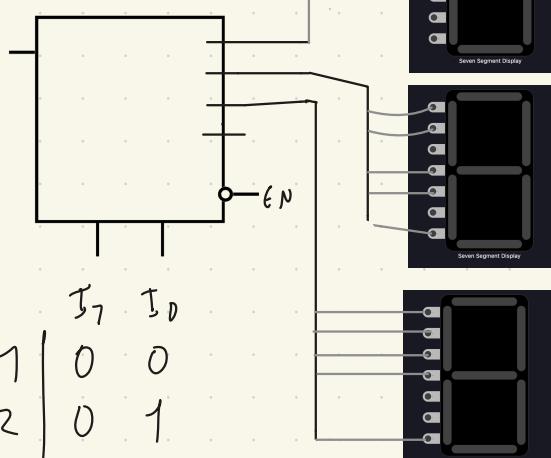
Alarne



$$\text{Alarne} = S \cdot Q_1 \cdot \overline{Q_0}$$

1.6)

'1'



	I ₇	I ₆
1	0	0
2	0	1
3	1	0
4	1	1

