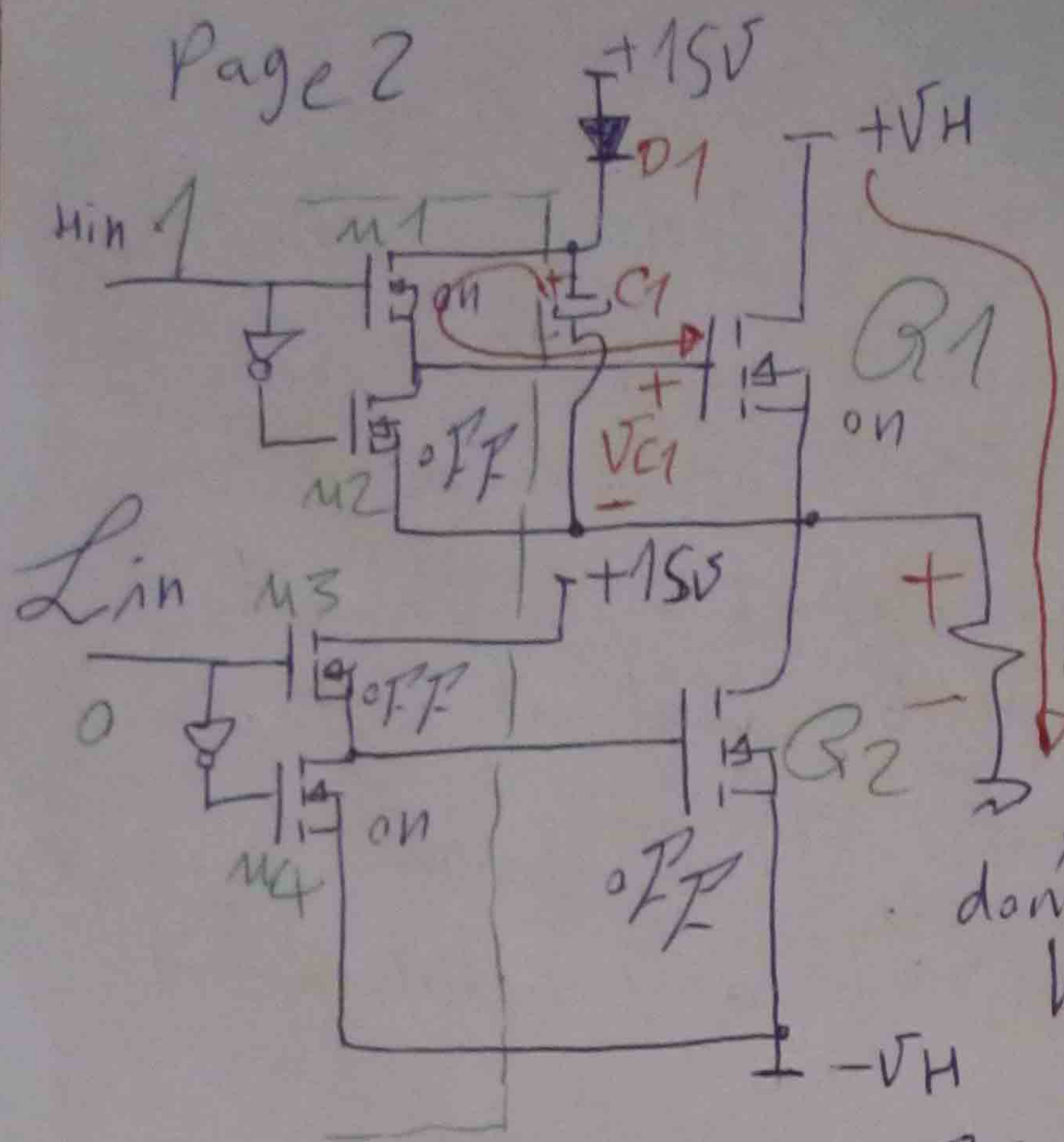


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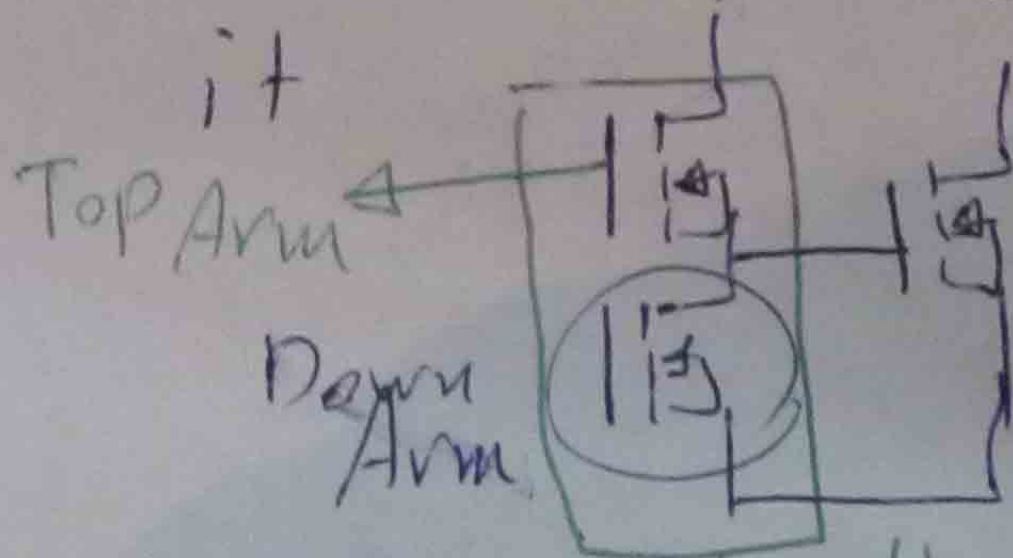


thus $M1$ is on
and $M2$ is off

and $M3$ is off
and $M4$ is on.

(G_S of $P2$ will be short circuit)

don't forget that each MOSFET has an internally capacitor at G_S junction. If it occupy, there won't be any path to discharge it. So the Down Arm can discharge it.



this Arrangement called totem Pole

Top Arm will Prepare Instantaneous current that C_{GS} needed at transient time.

So if $M1$ is on and $M2$ is off the Capacitor ($C1$) will be across the G_S of $P1$ thus it can be turn on.

this method called Boot strap Driving.

Best wishes

Gold Smith