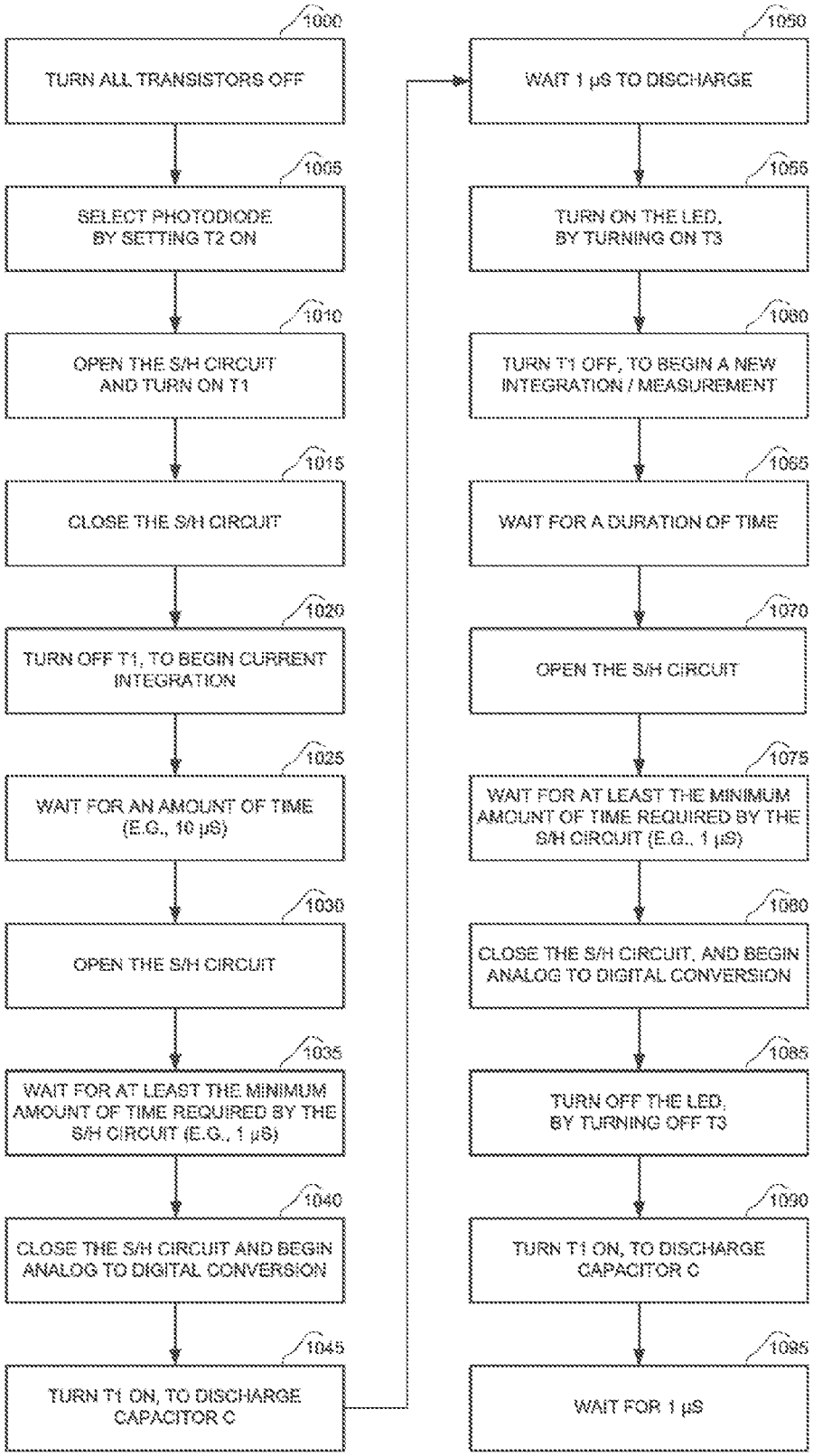
1000
TURN ALL TRANSISTORS OFF
1005
SELECT PHOTODIODE BY SETTING T2 ON
1010
OPEN THE S/H CIRCUIT AND TURN ON T1
1015
CLOSE THE S/H CIRCUIT
1020
TURN OFF T1, TO BEGIN CURRENT INTEGRATION
1025
WAIT FOR AN AMOUNT OF TIME (E.G., 10 μS)
1030
OPEN THE S/H CIRCUIT
1035
WAIT FOR AT LEAST THE MINIMUM AMOUNT OF TIME REQUIRED BY THE S/H CIRCUIT (E.G., 1 μS)
1040
CLOSE THE S/H CIRCUIT AND BEGIN ANALOG TO DIGITAL CONVERSION
1045
TURN T1 ON, TO DISCHARGE CAPACITOR C
1050
WAIT 1 μS TO DISCHARGE
1055
TURN ON THE LED, BY TURNING ON T3
1060
TURN T1 OFF, TO BEGIN A NEW INTEGRATION / MEASUREMENT
1065
WAIT FOR A DURATION OF TIME
1070
OPEN THE S/H CIRCUIT
1075
WAIT FOR AT LEAST THE MINIMUM AMOUNT OF TIME REQUIRED BY THE S/H CIRCUIT (E.G., 1 μS)
1080
CLOSE THE S/H CIRCUIT, AND BEGIN ANALOG TO DIGITAL CONVERSION
1085
TURN OFF THE LED, BY TURNING OFF T3
1090
TURN T1 ON, TO DISCHARGE CAPACITOR C
1095
WAIT FOR 1 μS

FIG. 20