reset brush state

\[
\begin{align*}
\text{count} &= 0 \\
\text{stop hiccup timer} \\
\text{stop main timer} \\
\text{set hiccup timer 30s} \\
\text{set main timer 2min}
\end{align*}
\]
InBrushing HSM (lower level)

INIT

Brushing
/entry motor on
start hiccup timer
(exit motor off)

Hiccuping
/entry set/start hiccup timer 1/2s
(count++)
(exit set hiccup timer 30s)

Paused
/entry set/start resume timer 30s
(exit stop resume timer)

Done
/entry post BRUSHING_DONE
(exit)

BUTTON PRESS

ES_TIMEOUT(hiccup)

[count < 4]

ES_TIMEOUT(hiccup)

[count >= 4]

ES_TIMEOUT(resume)
ES_TIMEOUT(resume) [Vbat > FULLY_CHARGED]

Charging
/entry blink LED
   turn charging on
/exit turn charging off
   set/start resume timer

Charged
/entry steady LED
/exit set/start resume timer

ES_TIMEOUT(resume) [Vbat < FULLY_CHARGED]

InCharging HSM (lower level)