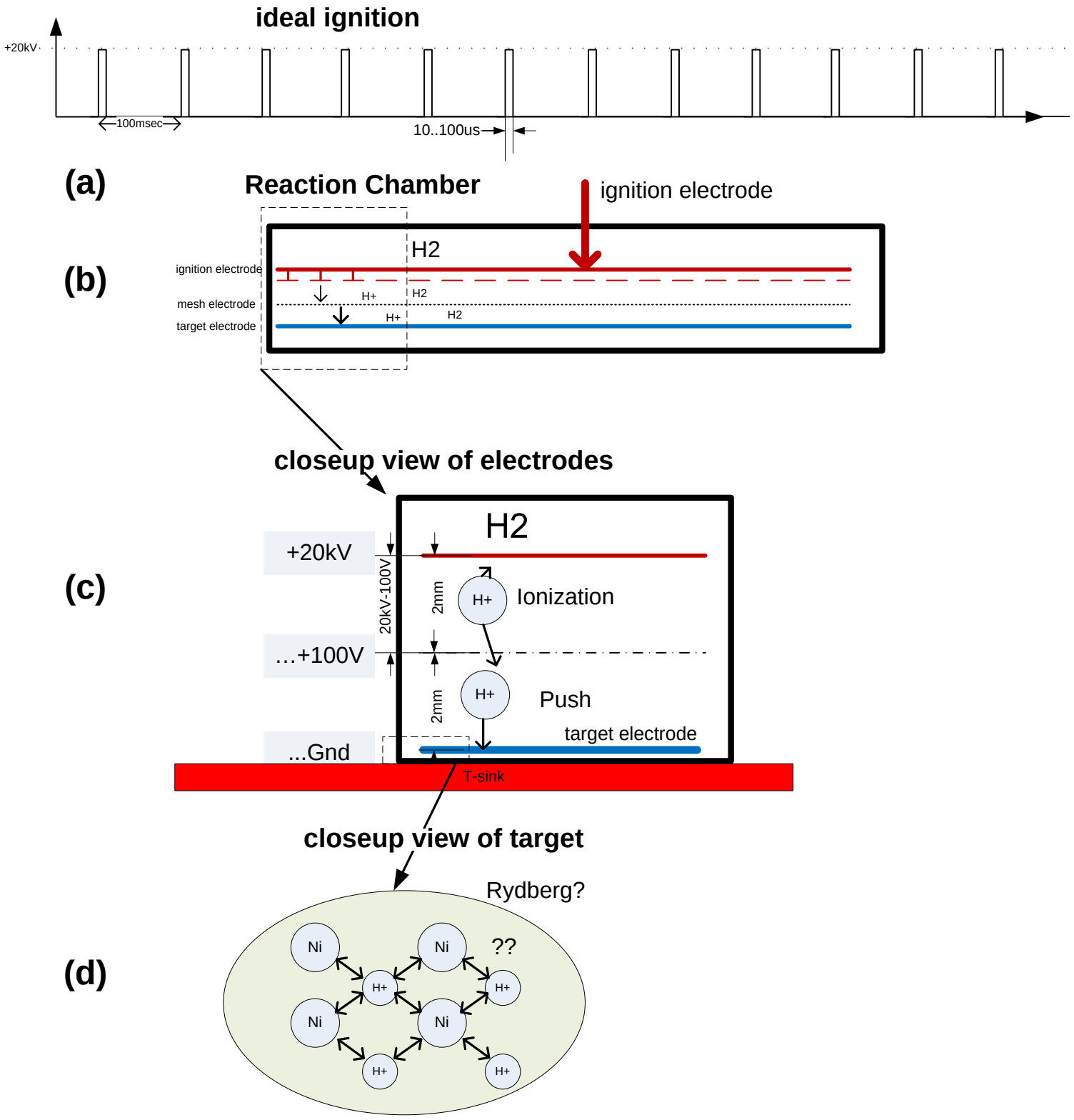

Note: 'ideal ignition' is not achievable. 'Real ignition' is bipolar without spwending considerable effort, and as such reduces the directivity of ion movement by say 50%. Typical ignition energy is 25..250mJ/ spark, which results in 5..50 J/second. i.e. 5..50Watt, which is a decent value. As such, the COP-limiting factor is probably not the energy of the sparking, i.e. the H+ generation, but the tbd thermal input, needed to start the reaction in the first place.

The COP-component by sparking alone could be estimated as 100…>1000, and as such would not be the limiting factor towards an 'infinite' COP.

The problem is CONTROLLABILITY, where one has to pay a price.
A runaway process with COP infinity is not in anybody's interest, right?

gw 20120522