ULTRAPACKED ELECTRODE ASSEMBLY AND METHOD OF MAKING THE SAME

ABSTRACT

The present invention provides an ultrapacked assembly of electrodes for being used as a part of a sensor. The assembly comprises a core rod as one electrode of the assembly, an insulating layer, wherein the core rod is coated by the insulating layer and a shell having an internal channel for accommodating the coated core rod; wherein the coated core rod is inserted into the channel of the shell, thereby the shell can grip the coated core rod, resulting a tightly packed assembly of electrodes. The present invention also provides methods for manufacturing the ultrapacked assembly of electrodes. The manufacturing method includes the steps of drilling a central channel through the shell, coating the core rod with the insulating layer, heating the shell with the central channel to a temperature higher than that of the core rod, and inserting the coated core rod into the central channel of the shell while the shell is hot; wherein when the shell is cooling, the shell grips the coated core rod; thereby a tightly packed assembly of electrodes is formed.

FIG 1