Abstract of the Disclosure

An aqueous sodium salt battery is prepared from self-supporting flexible thick electrodes using a winding process. The main features and advantages include: a) The self-supporting flexible thick electrodes are in the form of a continuous sheet and capable of being wound into a roll. It can be continuously produced with high production efficiency; b) The length of the electrode and the current collector can be adjusted freely, according to the battery design specifications, Control is easy, and products of different specifications can be made; c) The current collector is protected from corrosion, The positive and negative electrodes only need to be cut once, so that the entire battery cell structure only has two cut surfaces at the positive and negative current collectors, greatly reducing the risk of corrosion of the current collector, d) since the electrode tab and current collector are integrated in structure, there is no need to weld the tab within the electrode, facilitating formation of a battery and effectively reducing battery impedance.

Figure 1 to accompany Abstract