

The present invention relates to the field of magnesium chloride electrolysis, and specifically a magnesium chloride electrolysis apparatus is disclosed, comprising a magnesium chloride electrolysis bath, and one or more independent carbon electrodes (4) evenly inserted in an electrolysis chamber formed between a single set of negative electrode (2) and positive electrode (3) of the magnesium chloride electrolysis bath. By using the electrolysis apparatus of the present invention, the effective utilization of the space in the electrolysis bath can be improved, and the investment for the aluminum bus, the electrolysis bath and the workshop can be greatly reduced.