

ABSTRACT

LOW-HYDROGEN COVERED ELECTRODE

A low-hydrogen covered electrode, wherein the coating coverage ranges from 10 to 40 mass%, and the coating contains a metal carbonate (based on CO_2): 10% to 30%, a metal fluoride (based on F): 2% to 13%, TiO_2 : 1% to 7% by mass, at least one of Si, Si alloys, and Si oxides (based on Si): 1.9% to 11.7%, Ni and/or a Ni alloy (based on Ni): 0.5% to 3.5% by mass, Mo and/or a Mo alloy (based on Mo): 0.11% to 0.45%, at least one of B, B alloys, and B oxides (based on B): 0.02% to 0.25%, Ti and/or a Ti alloy (based on Ti): 0.2% to 1.0%, at least one of Al, Al alloys, Mg, and Mg alloys (based on Al and Mg): 0.2% to 1.8%, Mn and/or a Mn alloy (based on Mn): 1% to 7%, and Fe: 3% to 11%, on a mass percent basis.

Figure 1