

Title of the Invention: Hot Dipping 5 Weight % Al-Zn Alloy Coating on Steel

Abstract of the Disclosure

The present invention provides a process of hot dipping 5 weight % Al-
5 Zn alloy coating on steel comprises hot dip galvanizing the steel material,
reducing the thickness of a galvanized coating on the steel material,
followed by hot dipping 5 weight % Al-Zn alloy coating. Most of the 5
weight % Al-Zn alloy coating hot dipped on steel is eutectic structure and a
Fe-Zn-Al three element interfacial metal layer is formed. The hot dipping
10 5 weight % Al-Zn alloy coating on steel greatly improves the corrosion
resistance and mechanical properties of the steel.

(FIGURE 1 IS SUGGESTED FOR PUBLICATION)