

ABSTRACT**METHOD FOR TREATING A PART MADE OF IRON ALLOY FOR IMPROVING THE ANTI-CORROSION PROPERTIES THEREOF**

5

The present invention relates to a method for treating a part (P) made of iron alloy for improving the anti-corrosion and mechanical strength properties thereof, the method comprising:

- 10 - a salt bath nitriding or salt bath nitrocarburising step, to form a combination layer (1) on the part (P), and subsequently
- a step of phosphating the part (P), to form a phosphating layer (2) on the surface of the part,
- characterised in that the bath of molten salts contains chlorides, and the
- 15 phosphating step is carried out in a phosphating bath which contains zinc ions and/or manganese ions, and iron ions.

(Fig. 1)