

Title (en)  
METHOD AND FACILITY FOR CARBONITRIDING ONE OR MORE STEEL PARTS UNDER LOW PRESSURE AND AT A HIGH TEMPERATURE

Title (de)  
VERFAHREN UND ANLAGE ZUR KARBONITRIERUNG EINER ODER MEHRERER STAHLTEILE UNTER NIEDRIGEM DRUCK UND BEI HOHER TEMPERATUR

Title (fr)  
PROCÉDÉ ET INSTALLATION DE CARBONITRURATION DE PIÈCE(S) EN ACIER SOUS BASSE PRESSION ET HAUTE TEMPÉRATURE

Publication  
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Application  
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Priority  
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Abstract (en)  
[origin: WO2016075377A1] The invention relates to a carbonitriding facility (IC) which includes: a heating chamber (CC), for heating at least one steel part (PA) to a first temperature, in the presence of a neutral gas and under a selected pressure; a first enriching chamber (CE1) for enriching the heated part with nitrogen, by nitriding same in  $\alpha$ -phase at a second temperature no higher than the first temperature; a second enriching chamber (CE2) for enriching the nitrogen-enriched part with carbon, by carburising same at a third temperature higher than the second temperature; a quench chamber (CT) for quenching the nitrogen- and carbon-enriched part under pressure; a transfer airlock (ST) communicating with the chambers and suitable for temporarily receiving the part in a controlled atmosphere; and transfer means (MT) for transferring the part from one chamber to another chamber via the transfer airlock (ST).

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See references of WO 2016075377A1

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