

ABSTRACT OF THE DISCLOSURE

A METHOD OF CARBONITRIDING METAL ALLOY COMPONENTS AT
LOW PRESSURE

The invention relates to a method of carbonitriding metal alloy components that consists of subjecting said components to the action of a fuel mixture made up of ethylene and hydrogen and to the action of a nitriding
5 gas consisting of ammonia at a pressure of less than 100 hPa and at a temperature of from about 750 to 1050°C.

It is particularly advantageous for the treatment of steels that can be passivated or stainless steels
10 since it allows one to achieve very high surface nitrogen enrichments.