

Abstract

The present invention relates to a method for the catalytic removal of carbon dioxide and NO_x from waste gases in a reactor charged with activated carbon catalyst. The method comprises the following steps:

- a. saturating the catalyst with water
- b. saturating or partially saturating the waste gases with water,
- c. introducing the waste gases into the reactor,
- d. catalytically converting NO_x into NO₂⁻ and, in parallel with this, catalytically converting CO₂ into carbon and O₂ on the same catalyst,
- e. washing out the activated carbon catalyst with water and discharging the carbon as a solid and NO₂⁻ dissolved in water or in the base.

Fig. 2

