

Title (en)

METHOD AND SYSTEM FOR DETERMINING SULFUR POISONING STATE OF SELECTIVELY CATALYTIC REDUCTION DEVICE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DER SCHWEFELVERGIFTUNG EINES SCR KATALYSATORS

Title (fr)

MÉTHODE ET SYSTÈME POUR LA DÉTERMINATION DE L'EMPOISONEMENT AU SOUFRE D'UN CATALYSEUR SCR.

Publication

**EP 3842624 A1 20210630 (EN)**

Application

**EP 20196612 A 20200917**

Priority

CN 201911361702 A 20191226

Abstract (en)

A method and a system for determining a sulfur poisoning state of a SCR device are provided according to the present disclosure. In the method, if a reduction efficiency of the SCR device and a concentration of urea meet a predetermined triggering condition, the ammonia storage capacity detection is performed. In the detection, the urea injection is stopped and the accumulated consumption amount of stored ammonia is calculated. If the accumulated consumption amount of stored ammonia is not greater than a consumption limit value and a first actual reduction efficiency of the SCR device is less than a first predetermined efficiency value, the low-temperature efficiency of the SCR is required to be monitored. In the process of monitoring, if a difference value between a theoretical reduction efficiency of the SCR device and a second actual reduction efficiency is greater than a difference threshold value, it is determined that the SCR is in the sulfur poisoning state.

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (publication)

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