

Title (en)

SYSTEM AND METHOD FOR EVALUATING OPERATIONAL CONDITIONS OF BLAST FURNACE

Title (de)

SYSTEM UND VERFAHREN ZUR BEWERTUNG DER BETRIEBSBEDINGUNGEN EINES HOCHOFENS

Title (fr)

SYSTÈME ET PROCÉDÉ D'ÉVALUATION DES CONDITIONS DE FONCTIONNEMENT D'UN HAUT FOURNEAU

Publication

**EP 3733876 A1 20201104 (EN)**

Application

**EP 18893418 A 20181224**

Priority

- KR 20170180170 A 20171226
- KR 2018016580 W 20181224

Abstract (en)

A system and method for evaluating the operational conditions of a blast furnace is disclosed. The system for evaluating the operational conditions of a blast furnace may comprise: an image capture unit for capturing image data according to multiple tuyeres disposed in a blast furnace; an image collection unit for collecting the image data captured according to the tuyeres by the image capture unit; a tuyere combustion state determination unit for classifying, on the basis of artificial intelligence, combustion states according to the tuyeres by using the image data according to the tuyeres; a tuyere combustion state index generation unit for generating combustion state indexes according to the tuyeres by using the result of classifying the combustion states according to the tuyeres by the tuyere combustion state determination unit; and an integrated evaluation unit for generating an integrated combustion state index on the basis of the combustion state indexes according to the tuyeres.

IPC 8 full level

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CPC (source: EP KR)

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