

Title (en)
METHOD OF CONTROLLING TURBULENT FLOWS

Title (de)
VERFAHREN ZUR REGELUNG TURBULENTER STRÖMUNGEN

Title (fr)
PROCÉDÉ DE RÉGULATION D'ÉCOULEMENTS TURBULENTS

Publication
EP 3301362 B1 20200325 (DE)

Application
EP 16191924 A 20160930

Priority
EP 16191924 A 20160930

Abstract (en)
[origin: US2018094809A1] The present disclosure deals with the regulation of fluid flows in the presence of turbulence. The teachings thereof may be embodied in regulating a fluid in a combustion device. For example, a method for regulating a burner device may include: requesting a flow of a fluid through a feed duct; assigning the requested flow to a setting of a first actuator; transmitting a first signal to set the first actuator; generating a mass flow signal representing an actual flow through the side duct; correlating the second signal to an actual value of the flow through the side duct; correlating the requested flow through the feed duct to a required flow through the side duct; generating a regulation signal with the regulator for the second actuator as a function of the actual value of the flow through the side duct and the requested value of the flow through the side duct; and transmitting the generated regulation signal to the second actuator.

IPC 8 full level
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F23D 14/60 (2013.01 - EP US); **F23N 1/02** (2013.01 - RU); **F23N 1/022** (2013.01 - CN); **F23N 1/025** (2013.01 - US);
F23N 1/027 (2013.01 - EP US); **F23N 5/18** (2013.01 - US); **F23N 2005/181** (2013.01 - EP US); **F23N 2223/12** (2020.01 - EP US);
F23N 2223/14 (2020.01 - EP US); **F23N 2225/06** (2020.01 - US); **F23N 2233/08** (2020.01 - CN EP US); **F23N 2235/06** (2020.01 - CN);
F23N 2235/10 (2020.01 - CN)

Citation (examination)
US 2009111065 A1 20090430 - TOMPKINS GENE [US], et al

Cited by
EP4306912A1; EP4108988A1; EP4194749A1; US11692704B2; WO2021231359A1; WO2022269017A1; EP4050258A1

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EP 3301362 A1 20180404; **EP 3301362 B1 20200325**; CN 107883399 A 20180406; CN 107883399 B 20200110; ES 2792874 T3 20201112;
HU E049484 T2 20200928; PL 3301362 T3 20200824; RU 2674104 C1 20181204; US 11175039 B2 20211116; US 2018094809 A1 20180405

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RU 2017133736 A 20170928; US 201715722129 A 20171002