

Title (en)
AN APPARATUS FOR HOMOGENIZED MIXING OF GASES

Title (de)
VORRICHTUNG ZUM HOMOGENISIERTEN MISCHEN VON GASEN

Title (fr)
APPAREIL DE MÉLANGE HOMOGÉNÉISÉ DE GAZ

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Application
EP 18709932 A 20180209

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Abstract (en)
[origin: WO2018184756A1] The present disclosure relates to the field of mechanical engineering. In particular, the present disclosure relates an apparatus for homogenized mixing of gases for use with a chemiluminescent detector (CLD) comprising an outer conduit (102), an inner conduit (104), passing through said outer conduit (102), a first passage (104) defined through said inner conduit (102) for passage of one fluid of said two fluids, an inner wall (102') of said outer conduit (102) being spaced apart from an outer wall (104') of said inner conduit (104) to define a second passage (102A) for passage of the second fluid of said two fluids, said outer conduit (102) defining a bottom end (102B), said inner conduit (104) defining a first outlet (104B) recessed from said bottom end (102B). A reaction zone (106) is defined in the recess between said first outlet (104B) and bottom end (102B) for introducing the two fluids from said first passage (104A) and said second passage (102A), for homogenization. The technical advancement of the homogenizing apparatus of the present disclosure is that it facilitates homogeneous mixing of the gases and allows the mixture travel at the center of the detector of the CLD to avoid any loss of photons caused due to improper mixing, short-circuiting flow of the gases and quenching of light in the CLD.

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