

Title (en)

PROCESS AND SYSTEM FOR SEPARATING FINELY AEROSOLIZED ELEMENTAL MERCURY FROM GASEOUS STREAMS

Title (de)

VERFAHREN UND SYSTEM ZUR ABSCHIEDUNG VON FEIN AEROSOLISIERTEM ELEMENTAREM QUECKSILBER AUS GASSTRÖMEN

Title (fr)

PROCÉDÉ ET SYSTÈME POUR LA SÉPARATION DE MERCURE ÉLÉMENTAIRE MIS SOUS FORME D'AÉROSOL FIN DE FLUX GAZEUX

Publication

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Application

EP 15840936 A 20150831

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Abstract (en)

[origin: WO2016040027A1] A method and apparatus are provided for separating droplets of finely aerosolized elemental mercury from a gaseous stream in which the droplets are dispersed. In the method, a precious metal wire capillary surface or precious metal-coated wire capillary surface is contacted with the gaseous stream, causing the aerosolized droplets to deposit on the capillary surface and by capillary action to coalesce with other of such droplets. The surface is oriented to allow the mercury to flow by gravitational forces and capillary action to the lowermost portions of the surface, where it accumulates and can be collected. Metallic capillary surfaces comprised of finely braided strands of silver, gold, palladium, platinum, or rhodium wire, or wire coated with one or more of these metals, are particularly preferred.

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