

Title (en)
ELECTROSTATIC DUST SEPARATOR

Publication
EP 0252371 B1 19900221 (DE)

Application
EP 87109099 A 19870624

Priority
DE 3622699 A 19860705

Abstract (en)
[origin: EP0252371A1] 1. A dedusting electrostatic precipitator for a horizontal flow of gas, wherein a tubular inlet port (7), which flares in three conical sections (a, b, c) from the cross-section of the gas supply line to the at least ten times larger cross-section of the cylindrical housing (1), vertical platelike collecting electrodes (2) are equally spaced apart in a cylindrical pressure-resisting housing (1) and extend parallel to the main axis of the housing (1) and substantially throughout the available height over the length of the corresponding chord of the circle, corona electrodes (3) tensioned in frames (15) are provided between the collecting electrodes (2) and scraping means (6) are provided, which are pivotally movable about the axis of the housing throughout the lower portion of the housing wall, which portion is provided with dust discharge openings (4), characterized in that the respective smaller diameters d of the conical sections (a, b, c) of the tubular inlet and pipe (7) are related to the diameter D of the housing (1) as $0.24 D \leq d_3 \leq 0.36 D$ (preferably $0.3 D$) $0.36 D \leq d_2 \leq 0.48 D$ (preferably $0.42 D$) $0.90 D \leq d_1 \leq 0.95 D$ (preferably $0.925 D$) and that the intermediate conical section b has three gas-distributing plates (8a to 8c).

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IPC 8 full level
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Cited by
WO2011003610A1; WO2011003614A1; DE102010021233A1; CN106622664A; EP3156132A1; AT409347B; KR100735174B1; US7022166B2; WO0194023A1; DE102009060254A1

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