

Title (en)

FIRING PRODUCT FEED DEVICE FOR A FURNACE FOR OUTPUTS DOWN TO LESS THAN 1 KW

Title (de)

BRENNGUT-ZUFUHRRICHTUNG FÜR EINEN OFEN FÜR LEISTUNGEN BIS HINUNTER ZU WENIGER ALS 1kW

Title (fr)

DISPOSITIF D'ALIMENTATION EN COMBUSTIBLES POUR UN FOUR À PUISSANCES ALLANT JUSQU'À MOINS DE 1 KW

Publication

EP 2304319 A2 20110406 (DE)

Application

EP 09761228 A 20090604

Priority

- CH 2009000185 W 20090604
- CH 8822008 A 20080611

Abstract (en)

[origin: WO2009149570A2] The firing product feed device for granular firing product is designed for furnaces with minimal outputs of less than 1 kW. It comprises a conveyor screw (2) that is disposed in a pipe (8) for feeding the firing product. The central screw axis pipe (3), at the outer wall of which the volution (5) is provided and together with which the conveyor screw (2) is supported rotatably in the pipe (8), measures at least one quarter of the pipe diameter. The screw axis pipe (3) tapers off at the top as a cone (10) into a tip, wherein above the screw a circular grating (1) having a central round hole (6) and air feed openings (7) in the outer region of the grating (1) is disposed horizontally. This hole (6) is smaller than the diameter of the conveyor screw (2) and from the edge thereof (18) a conically expanding, funnel-shaped wall (9) is guided downward as a sliding wall for the firing product to be conveyed. Said wall (9) runs approximately or exactly parallel to the cone (10) of the upper end of the screw axis (3). The inside of the conveyor pipe (8) is rough, thereby preventing the firing product from rotating with the screw.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2009149570A2

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