

Title (en)  
BURNER BAR, MANUFACTURING METHOD THEREFOR, BURNER, AND WATER HEATER

Title (de)  
BRENNERSTAB, HERSTELLUNGSVERFAHREN DAFÜR, BRENNER UND WASSERERHITZER

Title (fr)  
BARRE DE BRÛLEUR, SON PROCÉDÉ DE FABRICATION, BRÛLEUR ET CHAUFFE-EAU

Publication  
**EP 4273449 A4 20240605 (EN)**

Application  
**EP 22774353 A 20220325**

Priority  
• CN 202120612600 U 20210325  
• CN 2022083165 W 20220325

Abstract (en)  
[origin: EP4273449A1] A burner bar (10), a manufacturing method therefor, a burner and a water heater applying the burner bar. The burner bar (10) comprises a burner bar body (100), a flame stabilizing apparatus (200), and a metal mesh (300). The burner bar body (100) forms a ventilating channel (110). A diverting hole (120) in communication with the ventilation channel (110) is provided at the top section (130) of the burner bar body (100). The flame stabilizing apparatus (200) is provided at the upper section of the burner bar body (100). The flame stabilizing apparatus (200) is provided therein with a cavity (210) having an opening (211) on the top side. A gap (212) is provided between the sidewall of the cavity (210) and the surface of the burner bar body (100). The gap (212) is in communication with the ventilation channel (110). The metal mesh (300) is affixed at the position corresponding to the diverting hole (120) to the burner bar body (100). The metal mesh (300) and the flame stabilizing apparatus (200) provide double flame stabilizing effects and increase the range of adaptability to single-piece heat load burning, the area of the aperture of the diverting hole (120) is increased, the performance of instant burning and flue gas discharging is great, and the usage requirement for an overall low nitrogen emission is satisfied.

IPC 8 full level  
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CPC (source: CN EP US)  
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Citation (search report)  
• [YA] CN 111735206 A 20201002 - SAKURA BATH & KITCHEN PROD CN  
• [YA] US 2018087772 A1 20180329 - HUANG CHUNG-CHIN [TW], et al  
• [A] CN 106765085 A 20170531 - NINGBO FOTILE KITCHEN WARE CO  
• See also references of WO 2022199700A1

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