

Title (en)  
EJECTOR FOR HEAT RECOVERY OR WORK RECOVERY SYSTEM, AND HEAT RECOVERY OR WORK RECOVERY SYSTEM

Title (de)  
EJEKTOR FÜR WÄRMERÜCKGEWINNUNGS- ODER -ARBEITSRÜCKGEWINNUNGSSYSTEM SOWIE WÄRMERÜCKGEWINNUNGS- ODER ARBEITSRÜCKGEWINNUNGSSYSTEM

Title (fr)  
ÉJECTEUR POUR SYSTÈME DE RÉCUPÉRATION DE CHALEUR OU DE RÉCUPÉRATION DE TRAVAIL ET SYSTÈME DE RÉCUPÉRATION DE CHALEUR OU DE RÉCUPÉRATION DE TRAVAIL

Publication  
**EP 3879124 A1 20210915 (EN)**

Application  
**EP 20213788 A 20201214**

Priority  
CN 202010161694 A 20200310

Abstract (en)  
An ejector 80 for a heat recovery or work recovery system, and a heat recovery or work recovery system comprising said ejector 80 are disclosed. The ejector 80 includes: a high-pressure fluid passage 1 including a high-pressure fluid inlet 11 and a high-pressure fluid nozzle 16; a low-pressure fluid passage 2 including a low-pressure fluid inlet 21 and a suction chamber 22 surrounding the high-pressure fluid nozzle 16; a mixing chamber 3 in fluid communication with the high-pressure fluid passage 1 and the low-pressure fluid passage 2 respectively; and a diffusion chamber 4 downstream of the mixing chamber 3; wherein the high-pressure fluid nozzle 16 includes a constricted segment 13, a throat portion 14, and a diffusion segment 15 in sequence, a distal end of the diffusion segment 15 defines a high-pressure fluid outlet, and a peripheral wall of the diffusion segment 15 has a convex arc shape in a longitudinal section. The ejector 80 has higher efficiency as compared to known ejectors.

IPC 8 full level  
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• [X] FR 960172 A 19500414  
• [X] EP 3093585 A1 20161116 - CARRIER CORP [US]  
• [X] DE 662250 C 19380709 - GERHARD FEHST DIPL ING  
• [A] CN 106391341 A 20170215 - CHINA SHENHUA ENERGY CO LTD, et al

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