

Title (en)  
NOZZLE SYSTEM OF A DEVICE FOR CONTACT-FREE TREATMENT OF A RUNNING FIBER WEB

Title (de)  
DÜSENSYSTEM EINER VORRICHTUNG ZUR BERÜHRUNGSLOSEN BEHANDLUNG EINER LAUFENDEN FASERSTOFFBAHN

Title (fr)  
SYSTÈME DE BUSE D'UN DISPOSITIF DE TRAITEMENT SANS CONTACT D'UN VOILE DE FIBRES

Publication  
**EP 3916150 A1 20211201 (EN)**

Application  
**EP 21170077 A 20210423**

Priority  
FI 20205530 A 20200526

Abstract (en)  
The invention relates to a nozzle system of a device for contact-free treatment of a running web, which nozzle system (10) comprises an overpressure nozzle part (20) and at least one direct impingement nozzle part (25A; 25B) arranged on either side of the overpressure nozzle part (20) and in which nozzle system (10) the direct impingement nozzle part (25A, 25B) is combined with the overpressure nozzle part (20) such that no discharge passage for discharging gases is formed between the direct impingement nozzle part (25A; 25B) and the overpressure nozzle part (20), in which nozzle system (10) the overpressure nozzle part (20) has a carrier surface (24) and on both sides of the carrier surface (24) a nozzle orifice row formed of nozzle orifices (18A, 18B) and extending in length direction of the nozzle system (10) and which nozzle orifices (18A, 18B) are configured to blow gas flows, which are guided against each other with the aid of curved Coanda-surfaces (22A, 22B) formed on each side of the carrier surface (24), in which nozzle system (10) the direct impingement nozzle part (25A; 25B) comprises at least one nozzle orifice row formed of nozzle orifices (16A, 16B) configured to blow gas flows mainly perpendicularly in view of upper surface of the direct impingement nozzle parts (25A, 25B). The overpressure nozzle part (20) comprises on the carrier surface (24) at least one row of direct impingement nozzle orifices (21) configured to provide direct impingement blowing by gas flows directed mainly perpendicularly in view of the upper surface of the overpressure nozzle part (20).

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Citation (applicant)  
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• [Y] US 3549070 A 19701222 - FORST JOHN W, et al  
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