

Title (en)  
AIRFLOW DYEING MACHINE CAPABLE OF INDEPENDENTLY SUPPLYING AIR BY MULTIPLE PIPES

Title (de)  
LUFTSTROMFÄRBEMASCHINE FÜR UNABHÄNGIGE ZUFUHR VON LUFT DURCH MEHRERE LEITUNGEN

Title (fr)  
MACHINE DE TEINTURE À FLUX D'AIR CAPABLE D'AMENER DE L'AIR DE MANIÈRE INDÉPENDANTE AU MOYEN DE MULTIPLES TUYAUX

Publication  
**EP 2792778 A4 20160210 (EN)**

Application  
**EP 11877221 A 20111214**

Priority  
CN 2011083995 W 20111214

Abstract (en)  
[origin: EP2792778A1] An airflow dyeing machine capable of independently supplying air by multiple pipes comprises a main cylinder (1), a lifting roller (2), a connection pipe, two or more fans (3), and a nozzle combination (5) connected to the fans. One end of each fan (3) is connected to an independent air draft pipe, and the other end is connected to the independent nozzle combination (5). The fans (3) are arranged at the top of the main cylinder (1). Outlets of the fans are docked with airflow inlets of the nozzle combination (5). Fans and dyeing pipes are controlled by each independent circuit control system. A first nozzle mouth (19) is formed by a gap of an upper nozzle barrel (12) and a lower nozzle barrel (13) in the nozzle combination (5). A second nozzle mouth (20) is formed by a gap between an interception ring (14) and the tail of the lower nozzle barrel (13). A U-shaped baffle (15) is arranged between the tail of the lower nozzle barrel (13) and the interception ring (14), so that the airflow is centrally jet from lower part of the nozzle mouth. By means of the dyeing machine, the efficiency and the dyeing quality are greatly improved, the power consumption is reduced, and the operation flexibility is increased.

IPC 8 full level  
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Citation (search report)

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