

Title (en)
AUTOMATIC EXHAUST AIR RECIRCULATION SYSTEM FOR A PRINTING MACHINE OF THE FLEXOGRAPHIC OR ROTARY TYPE, OR FOR A LAMINATING MACHINE

Title (de)
AUTOMATISCHES ABLUFTRÜCKFÜHRUNGSSYSTEM FÜR EINE FLEXOGRAFISCHE ODER ROTIERENDE DRUCKMASCHINE ODER EINE LAMINIERMASCHINE

Title (fr)
SYSTÈME DE RECIRCULATION D'AIR D'ÉCHAPPEMENT AUTOMATIQUE DESTINÉ À UNE MACHINE D'IMPRESSION DU TYPE FLEXOGRAPHIQUE OU ROTATIF OU À UNE MACHINE DE STRATIFICATION

Publication
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Application
EP 17000252 A 20170216

Priority
IT UB20160825 A 20160218

Abstract (en)
Automatic exhaust air recirculation system 10 for a drying oven 92 for a machine 90 that uses tare-based inks or glues and/or flammable solvent-based inks or glues, or their like, wherein in particular the machine (90) is selected from a printing machine of the flexographic or rotary type, a laminating machine, a coating machine; the automatic system 10 includes a plurality of air ducts for defining an air ventilation system 20 for the drying oven 92 for the machine 90. The automatic system 10 comprises an electronic control and command unit 15 and at least one temperature sensor 13 and an absolute humidity or relative humidity sensor 12 which are associated with the plurality of air ducts for detecting the temperature and the air humidity, for determining the relative humidity and in particular the absolute humidity within the plurality of air ducts, also the electronic control and command unit 15 is connected to the humidity sensor 12 and connected to the temperature sensor 13 for recirculating at least partially the exhaust air within the plurality of air ducts, for reducing the energy consumption and for reducing the cubic meters of air to be evacuated, advantageously reducing the total cubic meters of exhaust air that may be treated prior to placing the same within an external environment, and at the same time for avoiding the condensation of water vapor on a product 94 and also at the same time for maintaining the same quality of a second product 94 obtainable with no air circulation or with a fixed recirculation at minimum levels such as a recirculation of 20%.

IPC 8 full level
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Citation (search report)

- [X] JP H0214772 A 19900118 - MITSUBISHI PAPER MILLS LTD
- [X] US 6203859 B1 20010320 - SCHEUFLEDER FRED G [US], et al
- [X] EP 2404757 A1 20120111 - HEIDELBERGER DRUCKMASCH AG [DE]
- [X] JP 3246619 B2 20020115
- [X] JP 2005238012 A 20050908 - TAIKISHA KK

Citation (examination)

- JP 3246619 B2 20020115
- JP 2011185545 A 20110922 - HONDA MOTOR CO LTD

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