

Title (en)
STRUCTURAL ADHESIVE SPRAY NOZZLE COVERED WITH A PROTECTIVE LAYER PREVENTING THE ACCUMULATION OF STRUCTURAL ADHESIVE RESIDUES

Title (de)
STRUKTURELLE KLEBSTOFFSPRÜHDÜSE MIT EINER SCHUTZSCHICHT ZUR VERHINDERUNG DER ANSAMMLUNG VON STRUKTURELLEN KLEBSTOFFRÜCKSTÄNDEN

Title (fr)
BUSE DE PULVÉRISATION DE COLLE STRUCTURALE RECOUVERTE PAR UNE COUCHE DE PROTECTION CONTRE L'ACCUMULATION DE RÉSIDUS DE COLLE STRUCTURALE

Publication
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Application
EP 21717143 A 20210311

Priority

- FR 2003701 A 20200414
- FR 2021050417 W 20210311

Abstract (en)
[origin: WO2021209696A1] The present invention claims the priority of French application 2003701 filed on 14 April 2020, the content of which (text, drawings and claims) is included here for reference. [0001] The present invention relates to the technical field of motor vehicles, in particular the technical field associated with the spraying of structural adhesive onto bodywork parts. [0002] In the motor vehicle sector, regulations require the use of means for significantly reducing the fuel consumption of vehicles, particularly with regard to harmful emissions. [0003] A well-known solution consists in reducing the weight of motor vehicles, for example by reducing the thickness of parts or metal sheets which make up the body of the motor vehicle. Implementing a structural adhesion method consisting of depositing a layer of adhesive referred to as a structural adhesive onto the surface of thin parts is known in order to retain the mechanical properties of the body, in particular its rigidity. After drying, the structural adhesive forms a solid layer reinforcing the rigidity of the part. [0004] One of the characteristics associated with said solution is the imperative need to keep the bonded parts immobile relative to each other until the adhesive layer holding the parts together has polymerised. [0005] This is very restrictive in the motor vehicle industry since polymerisation of the adhesive can only take place after the method referred to as cataphoresis, i.e. in the paint shop, whereas the assembly of parts has taken place in a previous workshop referred to as the body welding shop. [0006] It is therefore necessary to hold the parts together for a very long time, particularly throughout the process of manufacturing the welded body.

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