

Title (en)
SPACE UTILIZATION/COMPONENT INTEGRATION USING BLOW MOLDING TECHNOLOGY

Title (de)
RAUMNUTZUNG BZW. INTEGRATION VON KOMPONENTEN DURCH BLASFORMEN

Title (fr)
UTILISATION D'ESPACE/INTEGRATION DE COMPOSANTS METTANT EN OEUVRE UNE TECHNOLOGIE DE MOULAGE PAR SOUFFLAGE

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Application
EP 00983849 A 20001130

Priority

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Abstract (en)
[origin: WO0139949A2] Various plastic structures for automotive applications are disclosed. The plastic structures are preferably produced by blow molding and comprise at least one cavity, generally for containing a vehicle component therein, formed within the confines of the wall structure. Exemplary applications of the plastic structures include various fluid reservoirs located in the engine compartment (e.g. along the fender inner panel, the wheel well liner, the underside of the hood, the cowl, the firewall, and the front-end structure), the passenger compartment (e.g. rear shelf, door arrangements), beneath the vehicle (e.g. fuel tanks, spare tire holders) and alongside the vehicle (e.g. step platforms). Still other applications of the plastic structures include battery holders, cable guides, ducts, filter housings, electrical housings, HVAC housings, a wheel well liner, acoustic resonators, headlamp receptacles, radiator frames, fan shrouds, bumpers, tool platforms, access panels, running boards, step wells, steering wheels, seat frames, mirror housings, spare wheel wells, spare wheel mounting brackets, engine covers, floor pans, engine cowls, and vacuum reservoirs. [origin: WO0139949A2] Plastic structures for automotive applications are disclosed. The structures are preferably produced by blow molding and comprise at least one hollow structure (100) containing a cavity (204), generally containing a vehicle component therein, formed within the confines of the wall structure, such as a battery holder (208).

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Citation (search report)

- [X] US 5946763 A 19990907 - EGNER-WALTER BRUNO [DE], et al
- [X] GB 2337235 A 19991117 - TEXTRON AUTOMOTIVE U K [GB]
- [A] DE 4412657 A1 19951019 - VDO SCHINDLING [DE]
- [X] EP 0560594 A1 19930915 - BURLEIGH HOWARD IAN [GB]
- [X] DE 2701026 A1 19780713 - WEGNER ALBERT
- [X] DE 3734130 A1 19890427 - DAIMLER BENZ AG [DE]
- [X] EP 0771704 A1 19970507 - BOSCH GMBH ROBERT [DE]
- [PX] WO 0051858 A1 20000908 - MANNESMANN VDO AG [DE], et al
- See references of WO 0139949A2

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