

Title (en)

METHOD AND APPARATUS FOR FLATPROOFING A TIRE AND WHEEL ASSEMBLY AND RESULTING FLATPROOFED ASSEMBLY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR IMPLEMENTIERUNG DER PANNENSICHERHEIT EINER REIFEN- UND RADANORDNUNG UND SICH ERGEBENDE PANNENSICHERE ANORDNUNG

Title (fr)

PROCEDE ET APPAREIL DESTINES A GARANTIR LA RESISTANCE AU DEGONFLEMENT D'UN ENSEMBLE PNEU ET ROUE ET ENSEMBLE RESISTANT AU DEGONFLEMENT

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Abstract (en)

[origin: WO2005007379A1] A method and apparatus are disclosed for flatproofing a tire and wheel assembly (208) with a flexible, lightweight foam-fill by supplying at least two polyurethane reactive materials to a static mixer (116). The static mixer mixes the reactants, and a nucleating gas is supplied to the mixed reactants in the static mixer to form a liquid reactant mixture with entrained gas. The reactant mixture is injected into the tire and wheel assembly where the mixture reacts and foams replacing the air in the tire with a flexible, lightweight semi-open cell foam-fill. The resulting foam-filled tire and wheel assembly is then allowed to cure.

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