

Application

For improvement of metal – plastic bonding without solvent containing adhesives **CYRANNUS®** technology offers a high performance solution with best process reliability.



R&D100 Award 2003



Young Female
Entrepreneur Award
2000

„Aus den praktischen
Erfahrungen mit den
Hidden Champions lernte
ich mehr über
Management als in zwei
Jahrzehnten
wissenschaftlicher
Forschung“

Prof. Simon (founder of
Simon, Kucher & Partners)

CYRANNUS®
cylindrical
resonator with
annular slots

int. patents approved or
pending, e.g.

EP 97906173

EP 98928283

EP 0872164

US 6204603 B1

US 6198224

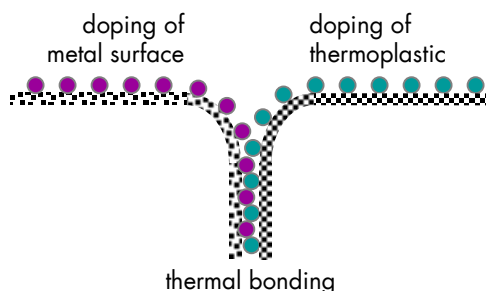
US 6543380

JP 531466

JP 524812

Surface conditioning of metal and plastics

The plasma treatment of materials contains cleaning steps to remove dirt from the surface and material doping to promote the bonding between metal and polymer.



Conditioning of surface
enables a thermal
bonding between metal
and thermoplastics

Advantages for users

- solvent free bonding of metal and thermoplastics
- no adhesives required thus no aging problems
- conditioning of 3 dim. parts or webmaterial
- high process speed and reliability through medium pressure processes
- good adhesion (e.g. Aluminium/PE ~ 2N/mm)

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