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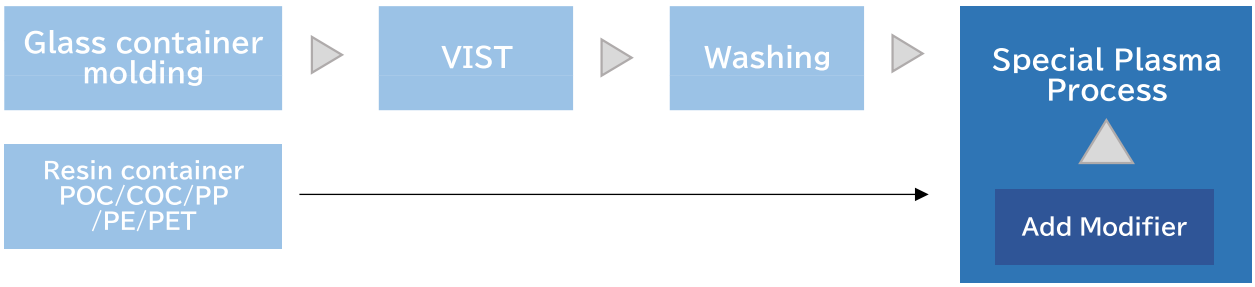
New surface modification technology（VIST PLAS）

Patent: WO2026/003969A1 , P6768179(JP)

1. A Next-Generation Surface Modification Technology（VIST PLAS）

VISTPLAS is an innovative surface modification technology that applies a specialized plasma treatment to VIST-treated glass containers to strongly bond a surface modifier.
Because the **VIST** process leaves the glass surface in a silica-rich state, it enables the robust and uniform formation of a modifying agent film. By fully imparting the unique characteristics of the modifier, this technology delivers significant improvements in functionality.

2. Process / Method



3. Product Attributes

While VIST PLAS can be used with a wide variety of modifying agents, the following two products are currently under development.

Product Name	VIST PLAS S	
Modifier	**Silica-Based Coating**	
Type of Container	Glass	Resin (COP/COC/PP/PET/PE)
Verified features	**Ultra-low dissolution** Ref.No.1,2 **Durability:High** No degradation 4 hours 121℃	
Expected features	**low adhesion** **Particle suppression**	**Blocking transmission/Gas** (including oxygen and steam)

Product Name	VIST PLAS F	
Modifier	**Fluorocarbon Coating**	
Type of Container	Glass	Resin (COP/COC/PP/PET/PE)
Verified features	**Ultra-low dissolution** Ref.No1,2 **Super water-resistance (repels oil and solvents)** Ref.No3 **Durable** After 300℃,10min 121℃×1hr No damage	
Expected features	**low adhesion** The highest among all substances **Particle suppression**	**Blocking transmission/Gas** (including oxygen and steam) **Improved sliding** (no silicone oil needed)

No.1 Comparison of Sodium Dissolution (Atomic Absorption Analysis)

No.2 Comparison of Metal leaching (ICP analysis)

No.3 Comparing contact angles ※Water-absorbing / -resistant

Daiwa Special Glass