<u>\$</u> 5	HIMADA		Shimada Appli	<u>G.K.</u> Company	Detail	2016/Nov.	
		R & D Laboratory : 〒333-0842 3-7-15-101,Maekawa,Kawaguchi-shi,Saitama Pref.					
Location		Head Office : 〒336-0926 3-2-17 Higasiurawa , Midoriku,Saitama-shi,Saitama Pref.					
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Represe	entative		presentative	Capital	8 mirion Yen	Diterectron,Kiyoritsu	
	ame		aji Shimada	Foundation year	2011/July	Agency Chemical,Owell, Eunil	
Description of business		Shimada Appli G.K. is the venture combination company which performed a company in 2011, and sells the precision spray valves and system to each industry of semiconductor, PCB, battery, bio and food based on paint coating technology experience more than 40 years.					
Its feature		The spray-type liquid discharge valve can make tornado style flow with the directivity by special extension adapter and the nozzle which has an extra-fine narrow. The coating valve which we named FSCC06 selective spray coater can have fine edge definition with a thin film. (Patent acquisition)					
	Outline	FSMicro Spray Gun,FSCC06 Selective Coater,SA Film Coat Gun & Table Coater					
Main products and technology	Utilization introducti on example	Conformal coating for VOC. Photo resist coating for MEMS & WLP. PE dot Coating. Electric conduction material coating. Coating of a photo catalyst and special adhesives. solder mask coating for PCW. Coating of a functional material in an LED manufacturing process. (The spray coating of a phosphor or a surfacing agent) Coating to the thin film. Functional film formation to a thin film solar cell or a silicon substrate. The application of a platinum catalyst. Serective coating for solvent type, waterborn type & solventless type conformal coating					
Pat	tent	5846645、Chinese No0039 [Coating system & metho	365.4, Taiwan NoI526251 d of waterborn type conformal coating low & middle viscosty m	coating」 Japanese Pate naterial] Japanese utility r	of being assembled and disassembled without use of tool J Japanese Patent No ng J Japanese Patent No 5661186、South Korea No 10-1415620 I] Japanese utility model No3191270 onally 5 cases of whole present's patent application		
	endation sults		ess section award in 2014 ess award Technical section	in 2015			
An example of case study of main product FSCC06 selective spray coater							
		Conventional method		Metho	od of used to FSCC06 :	selective spray coater	
N	Marking Conventional air spray & brush				e Material viscosty 800cp	s by FSCC06 selective coater	
•Less than voscosty 200cps is needed for coating surface					•Line coating is possible by flow 0.5mm to 15mm width .		
 • many sprash at min10mm width • curing time 2min over at more than 25 μ • Even brush coating is lack of the film thickness. • Clogging on chip, flow late unstableness 				•1 pass coating me	 1 pass coating more than 25 μ film thickness. Dring time 1min less at more than 25 μ 		
Confo	ormal co	ating Select coating with fi	m pattern of lubber type material	Correspondenc	e Coating 200cps by FSC	CO6 coater & other system	
				•CC material 20% of	• CC material 20% dilution + Solvent for angel hair prevention $\rightarrow 2-5\%$ addition		
•凸部工 <u>、</u>		厚:2 ~ 5μm@平面30μr	n	• • • • • • • • • • • • • • • • • • •		r prevention→2-5% addition	
Heat ove	me needs en temp. {	- ,,,,,	佐 本の逾布抗態	(Heat dryer 50°C	•Film thickness of the edge:10 ss for finger tuch	A fact is applied, and finds out that the pin point part	
Heat ove	me needs en temp. { line coa	3min for finger tuch.	在ter method	• dring time 1min le (Heat dryer 50°C Correspondence	 Film thickness of the edge: 10 Film thickness of the edge: 10 Guide the second se	A fact is applied, and finds out that the pin point part	
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Heat over Thin • A line • Clogging • There is • The film	ime needs en temp. S line coa ear blur g s no stab	3min for finger tuch. 30 degree ting Slot orrRoll coa for the solid body is s lity of continuous coating ss is uniform.	在ter method	• dring time 1min le (Heat dryer 50°C Correspondence	•Film thickness of the edge: 10 •Film thickness of the edge: 10 • ss for finger tuch • • • • • • • • • • • • •	Here 13 μ @flat surface 30 μ m Here 13 μ @flat surface 30 μ	
Heat over Thin • A line • Clogging • There is • The film • Res • Solder Transf	ime needs en temp. S ear blur g s no stab n thicknes sist coat r mask fer Effici	3min for finger tuch. 30 degree ting Slot orrRoll coa for the solid body is s lity of continuous coating ss is uniform.	وی می	dring time 1 min le (Heat dryer 50°C Correspondence ·It's possible to apply Correspondence ·Solder mask r <u>FSCC06 select o</u>	•Film thickness of the edge: 10 •Film thickness of the edge: 10 • ss for finger tuch • • • • • • • • • • • • •	13 μ @flat surface 30 μ m Image: style in the surface in the	
Heat over Thin • A line • Clogging • There is • The film • Res • Solder Transfi Conver Com	ime needs en temp. S ear blur g s no stab n thicknes sist coat r mask fer Effici	3min for finger tuch. 30 degree ting Slot orrRoll cost for the solid body is s lity of continuous coating ss is uniform. ing Conventional s material ency Screen printing7~ spray 4 m ² /kg @20-25µm with Item	وی می	dring time 1 min le (Heat dryer 50°C Correspondence ·It's possible to apply Correspondence ·Solder mask r <u>FSCC06 select o</u>	 Film thickness of the edge: 10 Film th	The set of the set o	