





ENGINEERING INVENTION & INNOVATION EXHIBITION









8 - 10 APRIL 2016

Product Description

Penerangan Produk

The project is made to deliver the fabrication of a new type of GMAW nozzle as it is changing the flow of gas during GMAW process. The flow of gas is depend through the different number of hole of the nozzle to make a shielding gas pattern to protect weld bead from Oxygen. Different number of hole created a different speed of velocity. If the number on the hole is decreased, the velocity of the nozzle will increased. The material that were used for nozzle is brass since it is easy to fabricate and the cost for brass is lower than the current material use for nozzle. Therefore it can reduce the costing to make the nozzle. The nozzle can reduce the consumption of shielding gas.

Problem & Causes

Masalah & Punca

- Conventional nozzle is unsuitable for welding outdoors
- Movement of shielding gas during the process created porosity
- Increasing the shielding gas output will increase the cost and it may affect the weld bead

Originality & Novelty

Keaslian & Novelti

- WASTE TO WEALTH
- 30-45 % reduce wasted shielding gases

A DEVICE FOR W	A DEVICE FOR WELDING WORKPIECES TOGETHER						Add To Basket 🔲
Application No.:	PI 2010002963	Patent No.:		Legal Status :	DEEMED WITHDRAWN		
Date of Filing :	22.06.2010	Date of Grant:					
IPC No.:							
Applicant:	8-LINK SDN. BHD.						
METHOD FOR AD	DJUSTING NOZZLE CLEARANC	E OF LIQUID APPL	ICATION APPARATUS,	AND LIQUID APPLICATIO	N APPARATUS	Relevancy: 84%	Add To Basket 🔳
Application No.:	PI 20081831	Patent No.:	MY-151624-A	Legal Status :	GRANTED AND PUBLISHED		
Date of Filing :	30.11.2006	Date of Grant:	30.06.2014				
IPC No.:	B05C 11/00;B05C 5/00;B05C 11/00;B05D 1/00;G02F 1/1339						
Applicant:	MUSASHI ENGINEERING, INC.						
This application	is still under 18 months.					Relevancy: 78%	Add To Basket 🔳
This application	is still under 18 months.					Relevancy: 78%	Add To Basket
Application No. :	PI 2014703865						
NOZZLE ROTATIO	ON MECHANISM AND APPLIC	CATION DEVICE TH	<u>EREWITH</u>			Relevancy: 78%	Add To Basket
Application No.:	PI 2011005128	Patent No.:		Legal Status :	FULL/MODIFIED EXAM. TO DO		
Date of Filing:	23.04.2010	Date of Grant:					
IPC No.:	B05B 3/12;B05C 5/00						
Applicant:	MUSASHI ENGINEERING, INC.						
METHOD OF CON	TROLLING ARC WELDING PR	ROCESSES AND WI	ELDER USING SAME			Relevancy: 78%	Add To Basket
Application No.:	PI 20011120	Patent No.:		Legal Status :	DEEMED REFUSED		
Date of Filing :	12.03.2001	Date of Grant :					
IPC No.:							
Applicant:	LINCOLN GLOBAL, INC.						

Eco- Friendly Aspect

Aspek Mesra Alam Sekitar

- Less smoke from welding.
- Ergonomic
- Friendly user





Application & Market Potential

Aplikasi & Potensi Pasaran









Achievement



WON 1 GOLD MEDAL

Supervisor .

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