## 505495814 05/28/2019

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
PIERRE BORDERY			01/18/2019	
FRÉDÉRIC DELCROIX			01/18/2019	
RECEIVING PARTY DA	ТА			
Name:	PANDROL			
Street Address:	ZONE INDUSTRIELLE RUE DU BAS PRÉ			
City:	RAISMES			
State/Country:	FRANCE			
Postal Code:	59590			
	1			
PROPERTY NUMBERS	Total: 1			
Property Type		Number		
Application Number:		16096999		
CORRESPONDENCE D Fax Number:		(009)654 7966		
		(908)654-7866 • <b>the e-mail address first: if th</b>	at is unsuccessful, it will be sent	
		; if that is unsuccessful, it wi		
Phone:		(908) 518-6366		
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Correspondent Name:	-		NER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	
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Address Line 4:		WESTFIELD, NEW JERSEY 0	7090	
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ATTORNEY DOCKET NU		REGIM 3.3F-403		

ATTORNET DOCKET NUMBER:	REGINI 3.3F-403	
NAME OF SUBMITTER:	MELINDA C. CORMIER	
SIGNATURE:	/Melinda C. Cormier/	
DATE SIGNED:	05/28/2019	
Total Attachments: 2		

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	former PTO/SB/15 (8-00) Modified LDLKs				
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)				
	REGIM 3.3F-403				
Whereas, I, Frédéric Delcroix	of				
<u>9 bis rue de Douai; 59171 Helesmes; FRANCE</u>					
hereafter referred to as assignor, have with others invented certa					
Mold For Aluminothermic Welding Of A Metal Rail And	Repair Method Making Use Thereof				
x for which an application for a United States Letters Patent was filed on October 26, 2018					
Application Number 16/096,999					
for which an application for a United States Letters Patent was executed by me on					
X for which an International Application was filed on	May 2, 2017 , as				
PCT/FR2017/051038, designating the United	States				
And	otates.				
Whereas, Pandrol					
a corporation of France herein referred to as "assignee" whose ma					
Zone Industrielle Rue du Bas Pré; 59590 Raismes; FRANCE	-				
is desirous of acquiring the entire right, title and interest in the sai					
NOW, THEREFORE, in consideration of the sum of one c					
is acknowledged, and other good and valuable consideration, I assignee my entire right, title and interest for the United State invention and the aforesaid utility patent application and all or applications and patents applied for or granted therefor in the t said invention, including without limitation all applications and patents applied for or granted therefor in the t said invention, including without limitation all applications and patents applied for or granted therefor in the t said invention, including without limitation all applications and patents applied for or granted therefor in the t said invention, including without limitation all applications and patents applied for or granted therefor in the t said invention, including without limitation all applications and patents and affect to any law or treaty, and infingement with the right to sue for and collect the same for its legal representatives, and including the right to claim such prior Trademarks is hereby authorized and requested to issue all pate said assignee herein, as assignee of the entire interest the representatives, heirs and assignee or its assigns, to commun all original, divisional, continuation, reissue and other application assignments thereof to said assignee or its assigns, to commun known to the undersigned respecting said improvements, whene legal proceedings in which any of said applications or patents mail rightful oaths, and to do generally everything necessary to all obtain patent protection for said improvements in all countries, than paid by said assignee.	is of America and all other countries in and to said riginal, divisional, continuation, substitute or reissue United States of America and all other countries, for atents for said invention claiming priority or benefit of d including all claims for damages by reason of past i own use and the use of its successors, assigns and rity or benefit and the Commissioner of Patents and lents on said improvements or resulting therefrom to erein; and the undersigned for me and my legal it without further remuneration, to execute and deliver ons for Letters Patent on said improvements and all licate to said assignee or its representatives all facts over requested, to testify in any interferences or other hay become involved, to sign all lawful papers, make d assignee, its successors, assigns and nominees to be expenses incident to said applications to be borne				
when known.	tiling date and application number of said application				
18.01.2019.	CUY				
Date	Frédéric Delcroix				
Witness					
Typed Name of Witness					
x *Total of 2 forms are submitted.					

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PATENT REEL: 049294 FRAME: 0047

	former PTO/SB/15 (8-00) Modified LDLK8				
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) REGIM 3.3F-403				
	ACCIVED.01-403				
Whereas, I, Pierre Bordery					
796 rue Emile Tabary; 59690 Vieux Conde; FRANCE					
hereafter referred to as assignor, have with others invented certain new and useful improvements in					
Mold For Aluminothermic Welding Of A Metal Rail And					
X for which an application for a United States Letters Pate					
Application Number 16/096,999					
for which an application for a United States Letters Pater	nt was executed by me on				
X for which an International Application was filed on	May 2, 2017 , as				
PCT/FR2017/051038 , designating the United	States.				
And					
Whereas, Pandrol					
a corporation of France herein referred to as "assignee" whose m					
Zone Industrielle Rue du Bas Pré, 59590 Raismes; FRANCI is desirous of acquiring the entire right, title and interest in the sa					
is deallous of acquiring the entire right, the and interest in the sa	me;				
invention and the aforesaid utility patent application and all o applications and patents applied for or granted therefor in the said invention, including without limitation all applications and p the aforesaid utility application pursuant to any law or treaty, an infringement with the right to sue for and collect the same for its legal representatives, and including the right to claim such prio Trademarks is hereby authorized and requested to issue all pa said assignee herein, as assignee of the entire interest the representatives, heirs and assignse do hereby agree and covenar all original, divisional, continuation, reissue and other application assignments thereof to said assignee or its assigns, to commune known to the undersigned respecting said improvements, where legal proceedings in which any of said applications or patents in all rightful oaths, and to do generally everything necessary to all obtain patent protection for said improvements in all countries, the and paid by said assignee.	United States of America and all other countries, fo atents for said invention claiming priority or benefit o id including all claims for damages by reason of pase own use and the use of its successors, assigns and rity or benefit and the Commissioner of Patents and tents on said improvements or resulting therefrom to erein; and the undersigned for me and my legant without further remuneration, to execute and delive ons for Letters Patent on said improvements and all incate to said assignee or its representatives all facts ever requested, to testify in any interferences or othe tay become involved, to sign all lawful papers, make d assignee, its successors, assigns and nominees to ne expenses incident to said applications to be borne				
when known.					
	Come Con Contraction				
L'aic	Pierre Bordery				
Withess					
Pierre Cornet					
Typed Name of Witness					
x *Total of 2 forms are submitted.	***************************************				
-5 (5)					

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## PATENT REEL: 049294 FRAME: 0048

**RECORDED: 05/28/2019**