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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	DATA				
		Name	Execution Date		
WOLFGANG GUNKE	EL		03/12/2016		
FRANK-FRIEDRICH	PAPE		02/24/2016		
KLAUS FOUQUET			03/10/2016		
RECEIVING PARTY	DATA				
Name:	BASF SE				
Street Address:	CARL-	CARL-BOSCH-STRASSE 38			
City:	LUDW	LUDWIGSHAFEN			
State/Country:	GERM	GERMANY			
Postal Code:	67056				
PROPERTY NUMBE	RS Total: 1				
Property Type		Number			
		4783278			
CORRESPONDENCI	E DATA				
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Email:	•	amy.hamm@dbr.com			
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Address Line 1: 222		222 DELAWARE AVE			
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ATTORNEY DOCKET NUMBER:		074014-0619-US-533091	074014-0619-US-533091		
NAME OF SUBMITTER:		HAROLD PEZZNER	HAROLD PEZZNER		
SIGNATURE:		/Harold Pezzner/	/Harold Pezzner/		
DATE SIGNED:		03/22/2016			
		This document serves as an	Oath/Declaration (37 CFR 1.63).		
Total Attachments: 3		· · ·			
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source=074014_0619_ source=074014_0619_ source=074014_0619_	_533091_A	signment#page2.tif			

DECLARATION (37 CFR 1.63) FOR UTILITY OR D APPLICATION DATA SHEET (37 CFR 1.	ESIGN APPLICATION USING AN 76) AND ASSIGNMENT
Title of TUBE BUNDLE DEVICE	AND USE THEREOF
As the below named inventor, I hereby declare that:	
This declaration [] The attached application, or	
is directed to: [x] United States application or PCT interna application number PCT/EP2014/0571261 2014.	ttional filed on April 9,
The above-identified application was made or authorized to be ma	ade by me.
I believe that I am the original inventor or an original joint inventor	of a claimed invention in the application.
WHEREAS, BASF SE having places of business at: Carl-Bosch- Germany	Strasse 38, 67056 Ludwigshafen,
(hereinafter referred to as "ASSIGNEE(S)") is desirous of acquiring the entire right, title and interest in and to Patent that may be granted therefore in the United States and and all foreign countries;	o said invention and in and to any Letters I its territorial possessions and in any
NOW, THEREFORE, for good and valuable consideration hereby acknowledged, I, by these presents do assign and trans oxclusive right to the said invention in the United States and its countries (including the right to claim priority under the terms of relevant International Treaties and Arrangements from the afc tille and interest in and to any and all Letters Patent which may and its territorial possessions and in any and all foreign count reissues, continuations, substitutions and renewals thereof.	ifer unto said ASSIGNEE(S), the full and i territorial possessions and in all foreign f the international Convention and other presaid application) and the entire right, the granter therefor in the lipited States
I hereby authorize and request the Patent Office Officials possessions and any and all foreign countries to issue any and to said ASSIGNEE(S) as the assignee of my entire right, title the sole use and behoof of said ASSIGNEE(S), its (his succe term for which said Letters Patent may be granted, as fully and held by me had this Assignment and sale not been made.	all of said Letters Patent, when granted, e and interest in and to the same, for assors and assigns, to the full end of the
Further, I agree that I will communicate to said ASSIGNEE known to me respecting said invention, and testify in any leg execute all divisional, continuation, substitute, renewal and rei assignment papers to cause any and all of said Letters Pater make all rightful oaths, and, generally do everything possil successors and assigns, to obtain and enforce proper protection and its territorial possessions and in any and all foreign countries.	ssue applications, execute all necessary it to be issued to said ASSIGNEE(S).
I hereby acknowledge that any willful false statement made in U.S.C. 1001 by fine or Imprisonment of not more than five (5) year	n this declaration is punishable under 18 s, or bolh.
LEGAL NAME OF INVENTOR	· · · · · · · · · · · · · · · · · · ·
Inventor: Wolfgang GUNKEL	Date: 10.03.2016
Signature, 2. 2. 8	

82356789,1

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A	TION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN PPLICATION DATA SHEET (37 CFR 1. 76) AND ASSIGNMENT
Title of Invention	TUBE BUNDLE DEVICE AND USE THEREOF
As the below name	d Inventor, I hereby declare that:
This declaration	[] The attached application, or
	[x] United States application or PCT international application number PCT/EP2014/057126 filed on April 9, 2014.
The above-identifie	d application was made or authorized to be made by me.
	he original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, BASF Germany	SE having places of business at: Carl-Bosch-Strasse 38, 67056 Ludwigshafen,
is desirous of acqui	I to as "ASSIGNEE(S)") Iring the entire right, title and interest in and to said invention and in and to any Letters granted therefore in the United States and its territorial possessions and in any ntries;
ereby acknowledg exclusive right to the countries (including relevant Internation tille and interest in and its territorial po	FORE, for good and valuable consideration the receipt and sufficiency of which is jed, i, by these presents do assign and transfer unto said ASSIGNEE(S), the full and he said invention in the United States and its territorial possessions and in all foreign the right to claim priority under the terms of the International Convention and other nal Treaties and Arrangements from the aforesaid application) and the entire right, and to any and all Letters Patent which may be granted therefor in the United States possessions and in any and all foreign countries and in and to any and all divisions, ons, substitutions and renewals thereof.
to said ASSIGNEE the sole use and t term for which said	ize and request the Patent Office Officials in the United States and its territorial y and all foreign countries to issue any and all of said Letters Pateni, when granted, (3) as the assignee of my entire right, title and interest in and to the same, for behoof of said ASSIGNEE(S), its (hie) successors and assigns, to the full end of the Letters Patent may be granted, as fully and entirely as the same would have been Assignment and sale not been made.
known to me respe execute all division assignment papers make all rightful o successors and ass	That I will communicate to said ASSIGNEE(S) or its (his) representatives any facts orting said invention, and testify in any legal proceeding, sign all lawful papers, nal, continuation, substitute, renewal and reissue applications, execute all necessary to cause any and all of said Letters Patent to be issued to said ASSIGNEE(S), paths, and, generally do everything possible to ald said ASSIGNEE(S). Its (his) signs, to obtain and enforce proper protection for said Invention in the United States seassions and in any and all foreign countries.
I hereby acknow U,S.C. 1001 by fine	ledge that any willful false statement made in this declaration is punishable under 18 or imprisonment of not more than five (5) years, or both.
LEGAL NAME OF I	NVENTOR
Inventor: Frank-Frie	drich PAPE Date: 24, 02, 2016
Signature:	rous- Friedrich Pap

82356789.1

DECLA	RATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
	APPLICATION DATA SHEET (37 CFR 1. 76) AND ASSIGNMENT
Title of	

TUBE BUNDLE DEVICE AND USE THEREOF

As the below named Inventor, I hereby declare that:

Invention

is directed to:

This declaration [] The attached application, or

 x) United States application or PCT international application number PCT/EP2014/057126 filed on April 9, 2014.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

WHEREAS, BASE SE having places of business at: Carl-Bosch-Strasse 38, 67056 Ludwigshafen, Germany

(hereinalter referred to as "ASSIGNEE(S)")

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW. THEREFORE, for good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and Interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in all divisions, reissues, continuations, substitutions and renewals thereof.

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as the assignee of my online right, tille and interest in and to the same, for the sole use and behoof of said ASSIGNEE(S), its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

Further, 1 agree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

I hereby acknowledge that any willful faise statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF INVENTOR

Inventor: Klaus FOUQUET

Signature:

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Date: 10.03.2016

RECORDED: 03/22/2016