

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5390555

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GUILLAUME SEILLER	09/24/2015
RECEIVING PARTY DATA	
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City:	SOUTHFIELD
State/Country:	MICHIGAN
Postal Code:	48034
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15762335
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	710290-1004
NAME OF SUBMITTER:	STEVEN C. HURLES
SIGNATURE:	/Steven C. Hurles/
DATE SIGNED:	02/25/2019
Total Attachments: 10	
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THIS DOCUMENT CONTAINS ATTORNEY-
CLIENT PRIVILEGED AND CONFIDENTIAL
BUSINESS INFORMATION



INVENTION DISCLOSURE FORM

(N. American/Asian/British Version)

Instructions for Completing This Form

TITLE: 15 04 LPC WITH EXTRA OPENING TO RELEASE

(Descriptive Name)

PLEASE IDENTIFY ALL INVENTORS: SEILLER GUILLAUME

GROUP:

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Invention Information

PART I BACKGROUND INFORMATION

PRODUCTION, SALES AND STATUS INFORMATION

PART III DESCRIPTION OF THE INVENTION

1. Discuss any problems this invention may solve, or advantages this invention may have over prior products or processes: WITH THE SOLUTION WE ALREADY HAVE WITH THE IDF CASE 50441 WE DO HAVE A SOLUTION TO AVOID ALL THE CUT IN THE SPACER BUT THE RETENTION OF BLADE ON THE ARM WHEN ARM IS IN SERVICE POSITION IS NOT VERY STRONG , WITH THIS NEW CASE WE HAVE THE POSSIBILITY TO NOT SEE LINE(CUT) IN THE SPACER BUT WITH A STRONG RETENTION AND A REALLY SMART RELEASE SYSTEM FOR THE BLADE , SO NO RISK TO LOOSE THE BLADE IN SERVICE POSITION ; WE STILL HAVE THE POSSIBILITY TO HAVE AN EXTRA RETENTION WITH THE BASE WHEN BLADE IS IN WORKING POSITION , THE OTHER ADVANTAGE OF THIS SYSTEM IS THAT THE BLADE ON THE CAR CAN NO MORE BE STOLEN IF THE ARM IN PARK CAN NOT BE LIFT (THIS IS THE CASE OF 95% OF CAR)
2. Describe the features of this invention that solve the problems or provide the advantages identified above: THE INVENTION IS TO HAVE A HIDDEN LEVER CONNECT TO THE RETENTION TOOTH OF THE SPACER , THIS LEVER IS ACTIF WHEN WE INCREASE THE ANGLE BETWEEN THE ARM AND THE BLADE AND AT THIS MOMENT THE PROTRUSION FOR THE RETENTION IS REMOVE FROM THE HOLE OR KNOTCH IN THE ARM EXTENSION AND THE BLADE CAN BE RELEASE FROM THE ARM , WITHOUT MAKING THIS EXTRA ANGLE THE RELEASE OF THE BLADE IS NOT POSSIBLE. THE SMART IDEA IS THE THAT WHEN WE OPEN THE ANGLE BETWEEN BLADE AND ARM , WE RELEASE THE RETENTION , THERE IS A MECHANICAL EFFECT WHEN WE INCREASE THE ANGLE BETWEEN THE ARM AND THE BLADE TO RELEASE THE PROTUSION WHICH GO INSIDE THE ARM HOLE OR KNOTCH , THEN THE RETENSION IS NO MORE ACTIVE AND THE ARM CAN BE RELEASE ,
3. Describe the main components of this invention, preferably with reference to an attached drawing(s). Discuss how the various components interact to achieve the purpose of the invention: IN THE ATTACHED EXCEL FILE YOU WILL SEE DRAWINGS , FIRST DRAWINGS IS A VIEW OF THE ARM EXTREMITY AND THE WIPER BLADE CONNECTED AND DISCONNECTED DRAWING 2 IS A VIEW OF THE CONNECTOR BASE AND THE SPACER CLIP TOGETHER , YOU SEE THAT FROM THE TOP WE SEE A MINIMUM OF SEPARATION LINE THIS IS TI DECREASE THE RISK OF DUST , ICE INTRODUCTION AND BLOCKAGES. DRAWINGS 3 IS SECTIONS OF THE BASE AND THE SPACER IN DIFFERENT POSSIBLE WORKING POSITION ; WE SEE THE THE SPACER CAN ROTATE ON THE BASE THIS WILL PERMIT THE BLADE TO FOLLOW THE SCREE WHEN THE ARM WILL ROTATE DURING WIPING CYCLES .THE MOVEMENT BETWEEN THE SPACER AND THE BASE ARE LINK TO THE

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SCREEN AND LINKAGE GEOMETRY (SO DIFFERENT FOR EACH CAR TYPE)
DRAWING 4 IS A SECTION OF THE SPACER AND THE BASE BUT WHEN THE
ANGLE BETWEEN THOSE TWO PARTS IS ENOUGH TO START THE RELEASE
PROCESS OF THE BLADE FROM THE ARM, WE SEE A PART OF THE FRONT OF THE
SPACER WILL COME IN CONTACT WITH THE BASE AND THIS CONTACT WILL
INDUCE A MOVEMENT OF A LEVER PART AOF THE SPACER, ON THIS LEVER WE
HAVE THE PROTRUSION AND THIS PROTRUSION MOVEMENT WILL PERMIT THE
BLADE RELEASE FROM THE ARM, TO OBTAIN THIS ROTATION MOVEMENT, THE
OPERATOR HAVE JUST TO TURM THE BLADE ARROUND THE ARM EXTREMITY
AND, THE BLADE WILL BE ABLE TO BE SEPARATE FROM THE ARM, DRAWINGS 5
IS A VIEW OF THE SPACER OUT OF THE BASE, DRAWINGS 6 IS TWO VIEW OF
THE EXTENTION IN THE SPACER DRAWING 7 IS A VIEW OF THE ARM
EXTREMITY, DRAWING 8 IS A VIEW OF THE EXTRA RETENTION WHEN THE
CONNECTION IS IN WORKING POSITION (EXTRA RETENTION IS NOT
MANDATORY WITH THIS DESIGN BUT CAN BE USED) DRAWING 9 IS A VIEW
WHEN THE EXTENSION IS INTRODUCE IN THE SPACER DRAWING 10 SHOW THE
ASSEMBLY OF THE SPACER ON THE CONNECTOR BASE DRAWING 11 IS AN
OTHER DESIGN WITH THE SAME BASIC IDEA

Inventor Information

The inventor(s) named below have prepared this document for the benefit of legal review under the Attorney-Client Privilege.

1st Inventor Full Name: GUILLAUME SETLER

Q. Are you a Federal-Mogul employee? A.

Home Address:

City/State/Zip:

Work Phone:

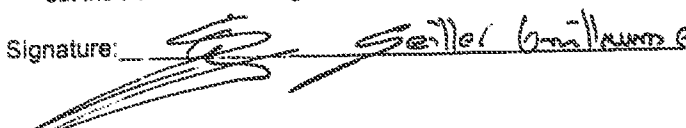
Fax:

Citizenship:

Email:

ASSIGNMENT OF 1ST INVENTOR:

"I do hereby assign to Federal-Mogul Corporation, its respective successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the invention described in this document and any patent applications and patents, domestic and foreign, that are based on the invention described in this document. I agree to execute such further documents and do such further acts and things as Federal-Mogul Corporation may reasonably request in order to carry out the terms of this assignment."

Signature: 

Date: 24/09/2015

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2nd (if any) Inventor Full Name:
 Q. Are you a Federal-Mogul employee? A. YES
 Home Address:
 City/State/Zip:
 Work Phone: Fax:
 Citizenship: Email:

ASSIGNMENT OF 2nd INVENTOR:

"I do hereby assign to Federal-Mogul Corporation, its respective successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the invention described in this document and any patent applications and patents, domestic and foreign, that are based on the invention described in this document. I agree to execute such further documents and do such further acts and things as Federal-Mogul Corporation may reasonably request in order to carry out the terms of this assignment."

Signature: _____ Date: _____

3rd (if any) Inventor Full Name:
 Q. Are you a Federal-Mogul employee? A. YES
 Home Address:
 City/State/Zip:
 Work Phone: Fax:
 Citizenship: Email:

ASSIGNMENT OF 3rd INVENTOR:

"I do hereby assign to Federal-Mogul Corporation, its respective successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the invention described in this document and any patent applications and patents, domestic and foreign, that are based on the invention described in this document. I agree to execute such further documents and do such further acts and things as Federal-Mogul Corporation may reasonably request in order to carry out the terms of this assignment."

Signature: _____ Date: _____

4th (if any) Inventor Full Name:
 Q. Are you a Federal-Mogul employee? A. YES
 Home Address:
 City/State/Zip:
 Work Phone: Fax:
 Citizenship: Email:

ASSIGNMENT OF 4th INVENTOR:

"I do hereby assign to Federal-Mogul Corporation, its respective successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the invention described in this document and any patent applications and patents, domestic and foreign, that are based on the invention described in this document. I agree to execute such further documents and do such further acts and things as Federal-Mogul Corporation may reasonably request in order to carry out the terms of this assignment."

Signature: _____ Date: _____

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PATENT

REEL: 048423 FRAME: 0071

INVENTION DISCLOSURE FORM

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5th (if any) Inventor Full Name:
Q. Are you a Federal-Mogul employee? A. YES
Home Address:
City/State/Zip:
Work Phone: Fax:
Citizenship: Email:

ASSIGNMENT OF 5th INVENTOR:

"I do hereby assign to Federal-Mogul Corporation, its respective successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the invention described in this document and any patent applications and patents, domestic and foreign, that are based on the invention described in this document. I agree to execute such further documents and do such further acts and things as Federal-Mogul Corporation may reasonably request in order to carry out the terms of this assignment."

Signature: _____ Date: _____

Record additional co-inventors on a separate sheet and attach to this form

WITNESS:

~~THIS INVENTION IS UNDERSTOOD BY AND HAS BEEN EXPLAINED TO ME:~~

Witness Signature: [Signature] Date: 29/05/2015
Printed Name: XAVIER BOLAND

GS

INVENTION DISCLOSURE FORM

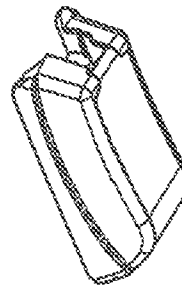
CONFIDENTIAL

Submitting This Form

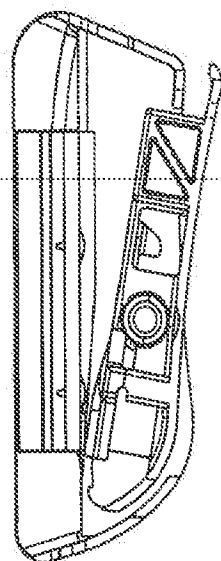
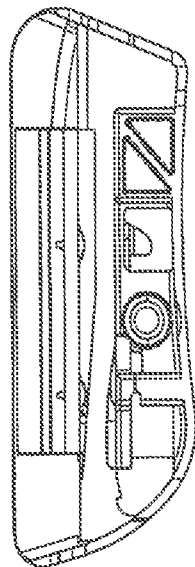
1 Top view of the arm and shaft separated and disengaged



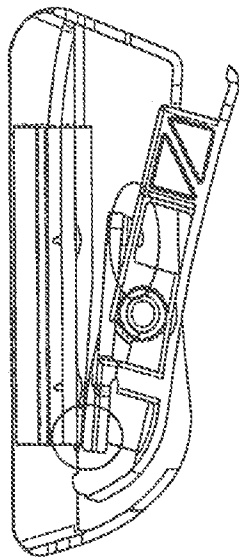
2 Top view of the base + spacer



3 Section of the base and the spacer at working angle



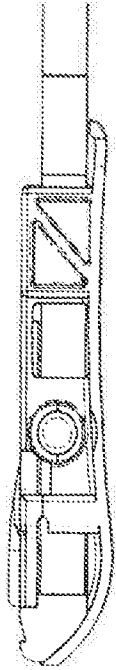
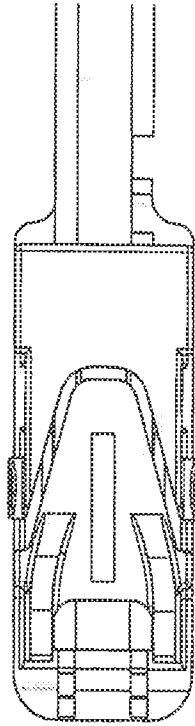
4 Section of the connector and the base at the release position (left)
The central point of the front act on the lever to move the resistor protrusion to the release position



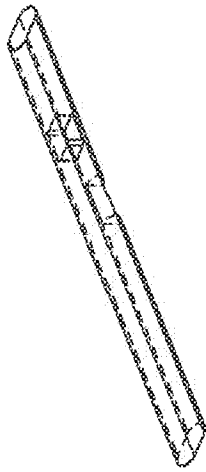
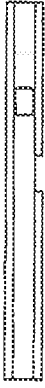
5 View of the spacer only



6 View of the spacer with extension inside (in holding position)

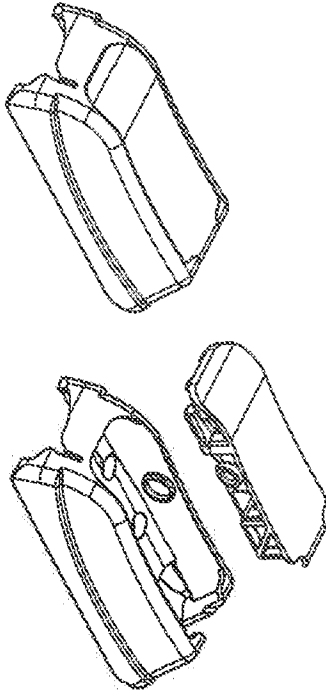


7 View of the extension out of the spacer (retention hole) or notch (see note independent)



8 View of the extra retention when components are in working position

21. View of a similar item with other design.



20. View of the assembly of the spacer on the base.



9. Section when extension is retracted.

