

ASSIGNMENT

 U.S. Provisional Application

 U.S. Utility Patent Application

Attorney Docket No. 105518

WHEREAS, **ROBIN E. SHEPHERD**, a citizen of UNITED STATES OF AMERICA, residing in the City of HAUGHTON, in the County of BOSSIER PARISH and State of LOUISIANA, **MARK D. MOSER**, a citizen of UNITED STATES OF AMERICA, residing in the City of ELK GROVE VILLAGE, in the County of COOK and State of ILLINOIS, **JOHN Y.G. PARK**, a citizen of UNITED STATES OF AMERICA, residing in the City of NAPERVILLE, in the County of WILL and State of ILLINOIS, and **ANDRZEJ Z. RINGWELSKI**, a citizen of UNITED STATES OF AMERICA, residing in the City of MARENGO, in the County of MCHENRY and State of ILLINOIS, and hereinafter referred to as "the inventors" have invented certain new and useful improvements in

ATTRITION RESISTANT CATALYST WITH REDUCED SURFACE AREA;

WHEREAS, the inventors hereby authorize and request their attorney/agent of record to have inserted on each page (where indicated below) the filing date and application number of said application when known; and

WHEREAS, UOP LLC, a company organized and existing under the laws of the State of Delaware having a principal place of business at Des Plaines, Illinois, is desirous of acquiring an interest in and to said application, the inventions disclosed therein, and the Letters Patent of the United States that may be issued thereon.

NOW, THEREFORE in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations the receipt of which is hereby acknowledged, said inventors do hereby transfer, set over and assign unto said UOP LLC, its successors and assigns, the entire right, title and interest in, to and under said application; the invention(s) covered thereby; any and all resultant patent or patents thereon; any renewals, reissues, extensions, reexaminations, substitutions, continuations, or divisions thereof, and all foreign rights thereunder including all rights to claim any priority in and to the inventions disclosed therein. Inventors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said UOP LLC, its successors and assigns.

IN WITNESS WHEREOF, the inventors have set their signatures hereunto on the date specified below.

Application No. 09/754 677 filed 1-4-01

Atty. Docket # 105518

PATENT Rev. 03-21-00
REEL: 012349 FRAME: 0248

Robin E. Shepherd
ROBIN E. SHEPHERD

12-14-00
Date

12-14-00
Date Executed
Application for Letters Patent

State of ~~Illinois~~ Louisiana
County of ~~Cook~~ Parish of Caddo

Before me, on this day, 12/14/00, personally appeared **ROBIN E. SHEPHERD**, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL

Sonia R. Cox
Notary Public
SONIA R. COX, Notary Public
Caddo-Bossier Parish, Louisiana
My Commission is for Life

Mark D. Moser
MARK D. MOSER

Dec. 15, 2000
Date

12/15/00
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 12/15/00, personally appeared **MARK D. MOSER**, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL

"OFFICIAL SEAL"
MARIE G. COOPER
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 6/20/2001

Marie G. Cooper
Notary Public

John Y.G. Park
JOHN Y.G. PARK

12-20-2000
Date

12-20-2000
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, Dec. 20, 2000, personally appeared **JOHN Y.G. PARK**, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL

"OFFICIAL SEAL"
SUSAN PROSEK
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 8/1/2004

Susan Prosek
Notary Public

Application No. 09/754 677 filed 1-4-01

Atty. Docket # 105518

Andrzej Z. Ringwelski
ANDRZEJ Z. RINGWELSKI

1/4/2001
Date

1/4/01
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 1/4/01, personally appeared **ANDRZEJ Z. RINGWELSKI**, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

Marie G. Cooper
Notary Public

SEAL



Application No. 09/754 677 filed 1-4-01

Atty. Docket # 105518
RECORDED: 01/30/2002

PATENT (v. 03-21-00)
REEL: 012349 FRAME: 0250