

09-08-1999



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Box Assignment
The Commissioner of Patents and Trademarks August 30, 1999
Washington, D.C. 20231 Atty. Ref.: DMC Item 137

Please record the attached original document or copy thereof.

Name of Conveying Party(ies):
DURAMETALLIC CORPORATION

Name and Address of Receiving Party(ies):
FLOWERVE CORPORATION
222 W. Las Colinas Boulevard, Suite 1500
Irving, Texas 75039

Nature of Conveyance:
☒ Assignment ☐ Security Agreement ☐ Merger ☐ License
☐ Change of Name ☐ Other:

Execution Date of Document: April 23, 1999

If this document is being filed together with a new application, the execution date of the application is: --

Patent Application Numbers:
08/735 328, 08/810 295

Patent Numbers:
4 261 581, 4 364 571, 4 560 173, 4 721 311, 4 743 034, 4 795 168,
4 890 851, 4 890 941, 5 370 403, 5 388 843, 5 479 718, 5 498 007,
5 531 458, 5 533 739, 5 551 708, 5 556 111, 5 558 342, 5 560 622,
5 630 699, 5 702 110, 5 762 342, 5 722 665, 5 797 602, 5 803 463,
5 924 697

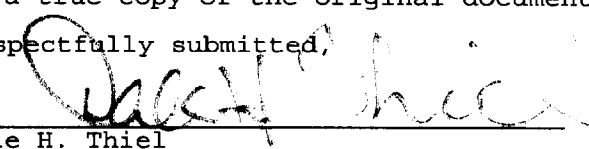
Total Number of Applications and Patents Involved: 27. An enclosed check includes the recording fee of \$1,080.00. The Commissioner is hereby authorized to credit any overpayment, or to charge any additional recording fee required by this paper, to Deposit Account No. 06-1382.

Kindly note that an assignment from PAC-SEAL INC. INTERNATIONAL to DURAMETALLIC CORPORATION regarding Patent No. 5 797 602 was submitted to the Patent and Trademark Office for recordation on August 26, 1999.

Mail correspondence concerning FLYNN, THIEL, BOUTELL & TANIS P.C.
the document to: 2026 Rambling Road
Kalamazoo, MI 49008-1699

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Respectfully submitted,


Dale H. Thiel

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Encl: Assignment
Check
Postal Card

Total number of pages, including cover sheet, attachments, and documents 8

121.9510

ASSIGNMENT OF PATENTS

WHEREAS, DURAMETALLIC CORPORATION ("Durametallic"), a corporation organized and existing under the laws of the State of Michigan and having a place of business at 2100 Factory Street, Kalamazoo, Michigan 49001 is the sole and exclusive owner, by assignment, of the Letters Patents, and applications therefor, all as listed in Exhibit A attached hereto and made a part hereof.

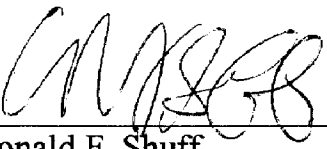
WHEREAS, FLOWSERVE CORPORATION ("Flowserve Corporation"), a corporation organized and existing under the laws of the State of New York and having a place of business at 222 W. Las Colinas Boulevard, Suite 1500, Irving, Texas 75039, is desirous of acquiring the entire right, title and interest in, to and under the said Letters Patents and applications therefor, the inventions covered thereby or described therein, as the case may be, hereinafter referred to collectively as "the Patent Rights".

NOW, THEREFOR, be it known that for value received, Durametallic by these presents does sell, assign and transfer unto Flowserve Corporation, effective as of September 30, 1998, the entire right, title and interest in and to the Patent Rights, the same to be held and enjoyed by Flowserve Corporation for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives as fully and entirely as the same would have been held and enjoyed by Durametallic if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of said Letters Patents with the right to sue for and collect the same for its own use and for the use of its successors, assigns or other legal representatives.

Durametallic hereby covenants that it has full right to convey the entire interest herein assigned.

IN WITNESS WHEREOF, the undersigned has caused these presents to be signed by its duly authorized officer this 23rd day of April, 1999.

Durametallic Corporation

By: 
Ronald F. Shuff
Vice President, Secretary and
General Counsel

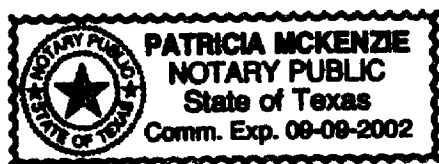
State of Texas)
) SS
County of Dallas)

On April 23, 1999, before me, PATRICIA MCKENZIE personally appeared Ronald F. Shuff, personally known to me to be the person whose name is subscribed to the attached written instrument and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the instrument the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Patricia McKenzie

(SEAL)



Document No. R031599F6

ASSIGNMENT OF PATENTS – EXHIBIT A

<u>Title of Invention</u>	<u>Country</u>	<u>Patent No.</u>
MECHANICAL SEAL WITH IMPROVED FACE RING MOUNTING	United States	4261581
MECHANICAL SEAL WITH IMPROVED FACE RING MOUNTING	Canada	1150744
TAPERED SEAL SEAT BETWEEN STATIONARY INSERT AND GLAND	United States	4364571
MECHANICAL SEAL ASSEMBLY WITH COOLANT CIRCULATION STRUCTURE	United States	4560173
MECHANICAL SEAL ASSEMBLY WITH COOLANT CIRCULATION STRUCTURE	Australia	577241
MECHANICAL SEAL ASSEMBLY WITH COOLANT CIRCULATION STRUCTURE	Canada	1266689
MECHANICAL SEAL ASSEMBLY WITH COOLANT CIRCULATION STRUCTURE	India	164831
MECHANICAL SEAL ASSEMBLY WITH COOLANT CIRCULATION STRUCTURE	Mexico	163522
MECHANICAL SEAL ASSEMBLY WITH COOLANT CIRCULATION STRUCTURE	South Korea	29998
MECHANICAL SEAL ASSEMBLY WITH COOLANT CIRCULATION STRUCTURE	Venezuela	47.826
MECHANICAL SEAL ASSEMBLY WITH INTEGRAL PUMPING DEVICE	Canada	1181779
MECHANICAL SEAL ASSEMBLY WITH COOLANT CIRCULATION TUBE	United States	4721311
LABYRINTH BEARING PROTECTOR SEAL	United States	4743034
LABYRINTH BEARING PROTECTOR SEAL	Brazil	PI8801288
LABYRINTH BEARING PROTECTOR SEAL	Canada	1281757

ASSIGNMENT OF PATENTS
EXHIBIT A – Page Two

<u>Title of Invention</u>	<u>Country</u>	<u>Patent No.</u>
LABYRINTH BEARING PROTECTOR SEAL	India	168269
LABYRINTH BEARING PROTECTOR SEAL	Mexico	166308
MAGNETIC SEAL ASSEMBLY	United States	4795168
MAGNETIC SEAL ASSEMBLY	Canada	1319715
MAGNETIC SEAL ASSEMBLY	India	169679
MAGNETIC SEAL ASSEMBLY	Mexico	172056
MAGNETIC SEAL ASSEMBLY	South Korea	55753
BELLOWS SEAL WITH VIBRATION DAMPER	United States	4890851
BELLOWS SEAL WITH VIBRATION DAMPER	Argentina	243657
BELLOWS SEAL WITH VIBRATION DAMPER	Australia	620005
BELLOWS SEAL WITH VIBRATION DAMPER	Brazil	PI9000187
BELLOWS SEAL WITH VIBRATION DAMPER	India	175951
BELLOWS SEAL WITH VIBRATION DAMPER	Mexico	167641
BELLOWS SEAL WITH VIBRATION DAMPER	South Korea	182265
BEARING PROTECTOR WITH SLINGER RING	United States	4890941
NON-CONTACTING FACE SEAL	United States	5370403
NON-CONTACTING FACE SEAL (Pending)	Canada	2151815
NON-CONTACTING FACE SEAL (Pending)	Europe (EC)	94904488.7
FLUID FILM SEAL	United States	5388843
SHAFT ALIGNMENT DEVICE	United States	5479718

ASSIGNMENT OF PATENTS
EXHIBIT A – Page Three

<u>Title of Invention</u>	<u>Country</u>	<u>Patent No.</u>
DOUBLE GAS BARRIER SEAL	United States	5498007
FACE SEAL WITH ANGLED GROOVES	United States	5531458
NON-CONTACTING SEAL WITH CENTERING SPRING MOUNTED IN DOVETAILED GROOVE	United States	5533739
FACE RING RETAINER ARRANGEMENT FOR MECHANICAL SEAL	United States	5551708
FACE SEAL WITH ANGLED GROOVES AND SHALLOW ANNULAR GROOVE	United States	5556111
FACE SEAL WITH ANGLED GROOVES AND SHALLOW ANNULAR GROOVE	Australia	685502
FACE SEAL WITH DOUBLE GROOVE ARRANGEMENT (Pending)	Japan	7-507534
FACE SEAL WITH DEEP ANGLED GROOVE AND SHALLOW ANNULAR GROOVE (Pending)	Brazil	PI9407404-6
FACE SEAL WITH DEEP ANGLED GROOVES AND SHALLOW ANNULAR GROOVE (Pending)	Canada	2170746
FACE SEAL WITH DEEP ANGLED GROOVES AND SHALLOWANNULAR GROOVE (Pending)	Europe (EC)	94926689.4
FACE SEAL WITH DEEP ANGLED GROOVES AND SHALLOW ANNULAR GROOVE (Pending)	Japan	7-508306
FACE SEAL WITH DEEP ANGLED GROOVES AND SHALLOW ANNULAR GROOVE (Pending)	South Korea	96/701059
MECHANICAL SEAL WITH SPRING DRIVE	United States	5558342
MECHANICAL SEAL WITH SPRING DRIVE (Pending)	Germany	19581720.6
MECHANICAL SEAL WITH SPRING DRIVE	Great Britain	2305982

ASSIGNMENT OF PATENTS
EXHIBIT A – Page Four

<u>Title of Invention</u>	<u>Country</u>	<u>Patent No.</u>
MECHANICAL SEAL WITH SPRING DRIVE (Pending)	Japan	8-506823
SECONDARY SEAL FOR NON-CONTACTING FACE SEAL ASSEMBLY	United States	5560622
PUMP BOX WITH REPLACABLE EROSION PROTECTOR	United States	5630699
PUMP BOX WITH REPLACABLE EROSION PROTECTOR (Pending)	Canada	2230441
PUMP BOX WITH REPLACABLE EROSION PROTECTOR (Pending)	Europe (EC)	96930715.6
FACE SEAL WITH ANGLED GROOVES AND SHALLOW ANNULAR GROOVE	United States	5702110
MECHANICAL SEAL WITH CONTROLLER FOR REGULATING FACE CONTACT PRESSURE	United States	5762342
SPIRAL GROOVE FACE SEAL	United States	5722665
SPIRAL GROOVE FACE SEAL (Pending)	Germany	P4303050.5
SPIRAL GROOVE FACE SEAL	Japan	2838012
MECHANICAL SEAL FOR WATER PUMP OF HEAVY DUTY VEHICLE	United States	5797602
GREASE SEAL	United States	5803463
HYBRID FLOATING BRUSH SEAL (Pending)	United States	SN 08/735328
HYBRID FLOATING BRUSH SEAL (Pending)	Germany	NA
HYBRID FLOATING BRUSH SEAL (Pending)	United Kingdom	NA
DOUBLE GAS SEAL (Pending)	United States	SN 08/810295

ASSIGNMENT OF PATENTS
EXHIBIT A – Page Five

<u>Title of Patent</u>	<u>Country</u>	<u>Patent No.</u>
DOUBLE GAS SEAL WITH BELLOWS SUPPORTED BY BACKING AND SUPPORT RINGS	United States	SN 08/943617 now Patent No. 5 924 697

Document No. R041999F2