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Señores

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

DIVISION DE NUEVAS CREACIONES

E. S. D.

SUPERINDUSTRIA Y COMERCIO

Radicacion : 00030387 00000001

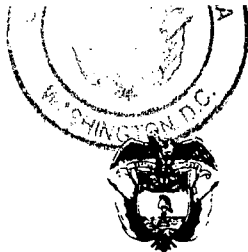
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Tramite : 002 PATENTES D 1 REGISTRO/ 329 COMPLETEN
Dependencia: 2220 DIVISION DE NUEVAS CREACIONES

REF : EXPEDIENTE No.000- 30387 de ABRIL 27

PATENTE : "METODO Y APARATO PARA REGULAR EL FLUJO DE GAS"



CONSULADO DE COLOMBIA

WASHINGTON, D.C.

No. 1105

EL CONSULADO DE COLOMBIA

CERTIFICA:

Que es auténtica la firma de PATRICK O. HATCHETT.

quien el día 28 DE ABRIL DEL 2000

desempeñaba las funciones de OFICIAL DE AUTENTICACIONES DEPARTAMENTO DE ESTADO.

la cual aparece al pie de los documentos anexos relacionados con REGISTRO DE MARCA.

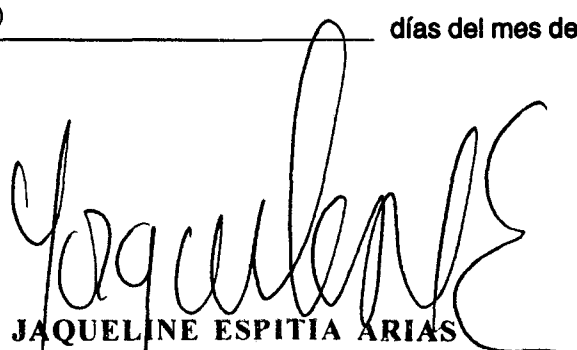
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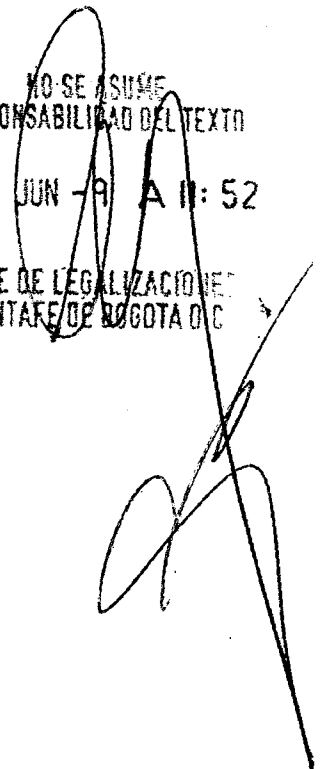
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United States of America

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DEPARTMENT OF STATE

To all to whom these presents shall come, Greetings:



I Certify That the document hereunto annexed is under the Seal of the Patent and Trademark Office, Department of Commerce, United States of America, and that such Seal is entitled to full faith and credit.*

In testimony whereof, I, Madeleine K. Albright, Secretary of State, have hereunto caused the seal of the Department of State to be affixed and my name subscribed by the Assistant Authentication Officer, of the said Department, at the city of Washington, in the District of Columbia, this twenty-eighth day of April, 2000.

Madeleine K. Albright

Secretary of State

By

Assistant Authentication Officer,
Department of State

Issued pursuant to CHXIV, State of
Sept. 15, 1789, 1 Stat. 68-69; 22
USC 2657; 22 USC 2651a; 5 USC
301; 28 USE 1733 et. seq.; 8 USC
1443(f); RULE 44 Federal Rules of
Civil Procedure.

*For the contents of the annexed document, the Department assumes no
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This certificate is not valid if it is removed or altered in any way whatsoever

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04/29/99
J. 15 U.S. PTO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 0146RF-068

In re Application of:

PERRY, Marney Dunman, Jr., et al.

Serial No.: To Be Assigned

Filed: Herewith

For: METHOD AND APPARATUS FOR
REGULATING GAS FLOW

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Examiner:

Art Unit:

JCS30 U.S. PTO
09/30/953
04/29/99

TRANSMITTAL

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

Enclosed herewith:

1. Transmittal Letter with Certificate of Express Mail No. EL139169583US;
2. Patent Specification and Claims;

"EXPRESS MAIL" No. <u>EL139169583US</u>
Date of Deposit: <u>4/29/99</u>
I hereby certify that this paper or fee is being deposited with the United States Postal Service Express Mail "Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Honorable Commissioner of Patents & Trademarks, Box Patent Application, Washington, D.C. 20231-9998,
by <u>Jana E. Walt</u>

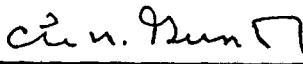
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3. 15 Sheets of Informal Drawings;
 4. Declaration signed by Marney Dunman Perry, Jr., Philip J. McKibbin, John A Krogue, and Mick Glasscock;
 5. Assignment and Assignment Cover Sheet;
 6. Power of Attorney Signed on Behalf of Perry Equipment Corporation;
 7. Verified Statement Claiming Small-Entity Status - Small Business Concern
 8. Our check in the amount of \$600.00 for application filing fee and assignment filing fee; and
 9. Our return postcard which we would appreciate you file stamping and returning to us.

The filing fee has been calculated as shown below:

Basic Fee	\$380.00
Claims in excess of 20	180.00
Assignment filing fee	40.00
Total	\$600.00

No other fee is deemed necessary. However, the undersigned hereby authorizes the Commissioner to charge any additional fees necessary, or credit any overpayment to Deposit Account No. 06-0580.

Respectfully submitted,



Charles D. Gunter, Jr.
Registration No. 29,386
FELSMAN, BRADLEY, VADEN, GUNTER
& DILLON, LLP
201 Main Street, Suite 1600
Fort Worth, Texas 76102

ATTORNEY FOR APPLICANT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 0146RF-068

In re Application of:

Marney Dunman Perry, Jr. et al.

Serial No.

Filed: Herewith

For: METHOD AND APPARATUS FOR
FOR REGULATING GAS FLOW

Examiner:

Art Unit:

VERIFIED STATEMENT (DECLARATION) CLAIMING
SMALL ENTITY STATUS (37 CFR 1.9 (f) and 1.27 (b))
SMALL BUSINESS CONCERN

I hereby declare that the below-identified small business concern qualifies as a small business concern as defined in 13 C.F.R. § 121.3-18, and reproduced in 37 C.F.R. § 1.9 (d), for purposes of paying reduced fees under section 41 (a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in the specification filed herewith.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention are listed below and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 C.F.R. § 1.9 (d) or a nonprofit organization under 37 C.F.R. § 1.9 (e).

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a small entity is no longer appropriate. (37 C.F.R. § 1.28 (b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME AND TITLE OF PERSON SIGNING:

Small Business

Concern: Perry Equipment Corporation

Name: M. Dunman PERRY, Jr.

Title: Chairman of the Board / Chief Executive Officer

SIGNATURE OF PERSON SIGNING:

M. Dunman Perry Jr.

DATE:

April 22, 1999

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SPECIFICATION

Attorney Docket No. 0146RF-068

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that we, Marney Dunman Perry, Jr., residing in the City of Mineral Wells, Texas, a United States citizen; Philip J. McKibbin, residing in the city of Jamul, California, a United States citizen; Mick Glasscock, residing in Theford, Norfolk, UK, a British citizen; and John A. Krogue, residing in the City of Mineral Wells, Texas, a United States citizen have invented new and useful improvements in a

METHOD AND APPARATUS FOR REGULATING GAS FLOW

of which the following is a specification:

"EXPRESS MAIL" No. <u>EL139169583US</u>
Date of Deposit: <u>4/29/99</u>
I hereby certify that this paper or fee is being deposited with the United States Postal Service Express Mail "Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Honorable Commissioner of Patents & Trademarks, Washington, Box Patent Application, D.C. 20231,
by <u>James E. Walther</u>

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BACKGROUND ART

1 **1. Field of the Invention**

2 The present invention relates generally to regulator valves useful in creating and
3 maintaining a selected pressure in a gas pipe or conduit. More specifically, the present invention
4 relates to a regulator capable of creating and maintaining two pressure reductions in series with
5 each other within a single regulator body.

6 **2. Description of Related Art**

7 Regulator valves for controlling the pressure of a gas pipe or conduit are well known in
8 the art. There are many ways to regulate the flow rate to equal demand and thus maintain a
9 constant pressure of the gas pipe or conduit independent of inlet pressure and/or load fluctuations.
10 In some applications, several gas-flow regulators are connected in series such that if one regulator
11 fails to control outlet pressure the second regulator takes over control. Most regulator valves
12 include a mechanism, such as a cage or throttle plate, for restricting the flow of the gas stream
13 and creating the pressure drop. These cages and throttle plates usually include a variety of holes
14 or slots through which a selected portion of the gas stream is allowed to flow by altering the
15 position of the diaphragm. Many of these regulator valves include additional control valves for
16 actuating the main gas-flow regulator valve.

17 As the technology advanced, gas-flow regulator valves began to include control valves
18 having one or more additional pilot amplifier valves with closed-loop feedback capabilities.
19 These pilot valves generally contained a sensing pressure chamber and an actuator that positions
20 the pilot valve. The pressure inputs to these pilot valves could be connected to a loading
21 chamber that is in fluid communication with the throttling diaphragm of the main regulator such
22 that inlet pressure can be applied to the diaphragm to position the diaphragm correctly. In
23 addition, it was not uncommon to connect more than one pilot valve to a single flow regulator.
24 The control pressures within these pilot valves could be derived from the pressure of the gas
25 stream upstream of the main regulator, (back pressure regulator), or the pressure of the gas stream
26 downstream of a throttling regulator.

27 Despite these advances in the art, there continues to be a need for improved regulator

