

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-217
Relating to Exemptions Under Section 27156
of the Vehicle Code

FUEL STRETCHERS, INC.'S
"FUEL STRETCHER" DEVICE

WHEREAS, Vehicle Code Section 27156 and Title 13 California Code of Regulations (hereafter "CCR") Section 2222(e), authorize the California Air Resources Board (ARB) and its Executive Officer to exempt add-on and modified parts from the prohibitions of Vehicle Code Section 27156.

WHEREAS, the Fuel Stretchers, Inc. has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for the "Fuel Stretcher" device.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Division by Health and Safety Code Section 39516 and Executive Order G-45-5, the Air Resources Board finds:

1. The "Fuel Stretcher", model nos. FS-200 and FS-300, is an add-on device that is attached to the fuel line in a motor vehicle.
2. The fuel line is part of the required motor vehicle pollution control system.
3. The "Fuel Stretcher", model nos. FS-200 and FS-300, is intended for use with a required pollution control system.
4. The "Fuel Stretcher", model nos. FS-200 and FS-300, by being installed in the fuel line alters the original design of a motor vehicle pollution control system.
5. The "Fuel Stretcher", model nos. FS-200 and FS-300, is a device subject to the prohibitions of Vehicle Code Section 27156 and an add-on part as defined by 13 CCR Section 1900(b)(1).
6. The "Fuel Stretcher", model nos. FS-200 and FS-300, does not reduce the effectiveness of any required motor vehicle pollution control device.
7. The Air Resources Board, in the exercise of technical judgement, is aware of no basis on which the "Fuel Stretcher", model nos. FS-200 and FS-300, will provide either a decrease in emission or an increase in fuel economy.
8. It has not been determined what effect use of the "Fuel Stretcher", model nos. FS-200 and FS-300, may have on any warranty, either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.

9. The "Fuel Stretcher", model nos. FS-200 and FS-300, is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
10. The Air Resources Board by granting an exemption to the Fuel Stretcher, Inc. for the "Fuel Stretcher", model nos. FS-200 and FS-300, does not recommend or endorse in any way the "Fuel Stretcher" for emissions reduction, fuel economy, or any other purpose.

IT IS HEREBY RESOLVED that the "Fuel-Stretcher", model nos. FS-200 and FS-300, is exempt from the prohibitions of Vehicle Code Section 27156 for installation on 1991 and earlier model-year vehicles powered with gasoline or diesel internal combustion engines, except for Ford vehicles powered by a 460 CID engine and equipped with electronic fuel injection, subject to the following conditions:

1. This exemption shall not apply to any device, apparatus, or mechanism advertised, offered for sale or sold with, or installed on, a motor vehicle prior to or concurrent with transfer to an ultimate purchase.
2. No changes are permitted to the device as described in the application for exemption. Any changes to the device, applicable model year, or other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
3. Marketing of this device using an identification other than that shown in this Executive Order or marketing of this device for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of this product shall not be construed as an exemption to sell, offer for sale, or advertise any component of the product as an individual device.
4. Any oral or written references to this Executive Order or its content by the Fuel Stretchers, Inc., its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any fuel economy or emissions reduction claims for the "Fuel Stretcher", model nos. FS-200 and FS-300, and is only a finding that the device is exempt from the prohibitions of Vehicle Code Section 27156.
5. No claim of any kind, such as "Approved by the Air Resources Board" may be made with respect to the action taken herein in any advertising or other oral or written communication.


-Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten days written notice of intention to revoke the order, in which period the holder of the order may

THE FUEL STRETCHERS, INC.
"FUEL STRETCHER" DEVICE

EXECUTIVE ORDER D-217
(Page 3 of 3)

request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executed at El Monte, California, this 20th day of March, 1991.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

State of California
AIR RESOURCES BOARD

EVALUATION OF FUEL STRETCHERS, INC.'S
FUEL STRETCHER FOR EXEMPTION FROM THE PROHIBITIONS
OF VEHICLE CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222,
TITLE 13, OF THE CALIFORNIA CODE OF REGULATIONS

March 1991

State of California
AIR RESOURCES BOARD

EVALUATION OF FUEL STRETCHERS, INC.'S
FUEL STRETCHER FOR EXEMPTION FROM THE PROHIBITIONS
OF VEHICLE CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222,
TITLE 13, OF THE CALIFORNIA CODE OF REGULATIONS

by

Mobile Source Division
State of California
Air Resources Board
9528 Telstar Avenue
El Monte, CA 91731-2990

(This report has been reviewed by the staff of the California Air Resources Board and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Air Resources Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.)

SUMMARY

Fuel Stretchers, Inc. has applied for exemption of their Fuel Stretcher device, Model nos. FS-200 and FS-300, from the prohibitions in California Vehicle Code Section 27156 for installation on 1991 and older model-year gasoline and diesel-powered motor vehicles, except for Ford vehicles powered by a 460 CID engine and equipped with electronic fuel injection.

Fuel Stretcher is a 40 micron in-line fuel filter, which, according to the manufacturer "helps stop engine knocking, cleans engine carbon deposits, and improves engine performance". After an engineering evaluation of the device, the staff has concluded that the device will not adversely affect exhaust emissions from the vehicles for which the exemption is requested.

The staff recommends that Fuel Stretchers, Inc. be granted an exemption for their Fuel Stretcher device for installation on 1991 and older model-year gasoline and diesel-powered vehicles, except for Ford vehicles powered by a 460 CID engine and equipped with electronic fuel injection, and that Executive Order D-217 be issued.

TABLE OF CONTENTS

	Page Number
SUMMARY	i
CONTENTS	ii
I. INTRODUCTION	1
II. CONCLUSION	1
III. RECOMMENDATIONS	1
IV. DEVICE DESCRIPTION AND OPERATION	2
V. DISCUSSION	2
VI. APPENDIX : INSTALLATION INSTRUCTIONS	4

EVALUATION OF FUEL STRETCHERS, INC.'S
FUEL STRETCHER FOR EXEMPTION FROM THE PROHIBITIONS
OF VEHICLE CODE SECTION 27156 IN ACCORDANCE WITH SECTION 2222,
TITLE 13, OF THE CALIFORNIA CODE OF REGULATIONS

I. INTRODUCTION

Fuel Stretchers, Inc. of 1317 Yellowstone, Arrowhead, CA 92352-1451, has requested an exemption of the Fuel Stretcher device from the prohibitions in California Vehicle Code (VC) Section 27156. The exemption is requested for installation of the device on 1991 and older model-year gasoline and diesel-powered vehicles, except for Ford vehicles powered by a 460 CID engine and equipped with electronic fuel injection, under the following applications:

Engine size up to 350 CID	Model FS-200
Engine size over 350 CID	Model FS-300

II. CONCLUSIONS

Based on the engineering evaluation of the device, and previous exemptions of similar devices with the same operating principles, the staff concludes that the device will not adversely affect exhaust emissions from 1991 and older model-year gasoline and diesel-powered vehicles.

III. RECOMMENDATIONS

The staff recommends that Fuel Stretchers, Inc. be granted an exemption for their Fuel Stretcher device for installation on 1991 and older model-year gasoline and diesel-powered vehicles, except for Ford vehicles powered by a 460 CID engine and equipped with electronic fuel injection. The staff also recommends that Executive Order D-217 be issued.

IV. DEVICE DESCRIPTION AND OPERATION

The Fuel Stretcher device is a hexagonal shaped, 1 1/2 inch long metallic tube of about 1/2 inch diameter. Both ends of the tube are threaded internally to extend inlet and outlet fuel lines. The tube contains a 40 micron sintered bronze electroplated with an amalgam of silver, nickel and platinum. The device is installed on the fuel line within 12 inches from the carburetor or fuel injector of the vehicle.

The applicant claims that by passing the fuel through this particular filter media, the fuel molecules attain uniform negative charge. These negatively charged molecules are spread out more evenly in the combustion chamber, resulting in complete and efficient fuel burning and, thus, better fuel economy is achieved. The applicant also claims that this process aids in cleaning carbon deposits from the combustion chamber and reduces engine knocking. The applicant did not submit any data to substantiate his claims. Further, no adjustments such as timing, exhaust gas recirculation (EGR), fuel metering, or any other engine adjustments are included in the installation instructions.

V. DISCUSSION

The applicant has submitted no literature or explanation to the mechanism by which the fuel molecules are negatively charged by passing through the sintered bronze filter. The staff has evaluated the design and operation of the Fuel Stretcher device. It is staff's opinion that passing the fuel through this filter medium will not alter the charge of the fuel molecules and there would be no effects on the fuel properties.

In the past, ARB has exempted similar devices such as the "Moleculator Fuel Energizer" and the "Fuel Dominator" by Internal Energy

Management Corporation, the "Top Eliminator" by Top Eliminator, Inc., the "Fuel Cat" by Fuel-Cat, Inc., and the "Carbonflo" by Carbonflo Sales America, Ltd. These devices were issued exemptions based on back-to-back CVS testing, fuel economy testing, and engineering evaluation. Because of the previous exemptions issued to similar devices with the same operating principle and the fact that in order to qualify for an exemption the device must not cause an increase in exhaust emissions, the staff has determined that the fuel stretcher device will not adversely affect emissions when installed on 1991 and older model-year vehicles. The staff recommends that Fuel Stretchers, Inc. be granted an exemption as requested.

APPENDIX : INSTALLATION INSTRUCTIONS

FUEL ***STRETCHERS***, Inc.

INSTALLATION INSTRUCTIONS

NOTE: The **FUEL STRETCHER** will not correct mechanical problems. **FUEL STRETCHERS, Inc.** is not responsible for damage caused by improper installation.

1. Fuel is flammable. Install only on an engine that has been shut off for at least eight hours. Install in a well-ventilated area. *No smoking* during installation. Watch fuel spray when cutting fuel line.
2. The **FUEL STRETCHER** should be installed in the fuel line within 12 inches from the carburetor or fuel injector. Make sure the Fuel Flow arrow on the **FUEL STRETCHER** is pointing in the proper direction. (If you are not sure which line to install the unit in, check with your local parts store.)
3. If you have a metal fuel line, use a tubing cutter. **Do not under any circumstances use a saw.** Small particles will clog your carburetor or fuel injectors.
4. Use Teflon tape on the threads when you tighten the brass connector fittings onto the **FUEL STRETCHER** and make sure the cap on the **FUEL STRETCHER** is on tight.
5. Cut fuel line, install the **FUEL STRETCHER** and tighten hose clamps and fittings.
 - a. On metal fuel lines, a piece of fuel hose should be placed on either end of the **FUEL STRETCHER** and slid over the metal fuel line. Hose clamps should be used to secure the fuel hose to the metal fuel line and the **FUEL STRETCHER**. Do not allow the **FUEL STRETCHER** to touch the metal line. This will ground it out.
 - b. For Teflon lines, a brass sleeve (available at your local parts store) should be inserted into the open ends of the Teflon line to prevent collapse when the clamps are tightened. Then follow the instructions for metal lines above.
 - c. For rubber fuel lines, cut the line, insert the **FUEL STRETCHER** and secure with hose clamps.
 - d. For braided steel fuel lines, you will need to install high pressure fittings after cutting the line. Remove the brass fittings that come with the **FUEL STRETCHER** and connect the high pressure fittings, using Teflon tape, directly to the **FUEL STRETCHER**.
 - e. Any hose connected to the **FUEL STRETCHER** must be non-conductive or it will ground the **FUEL STRETCHER** and negate the effectiveness of the **FUEL STRETCHER**.
6. Once the **FUEL STRETCHER** is installed, start the engine and make sure there are no leaks.
7. Place the insulating shield over the **FUEL STRETCHER** and check to make sure that no spark plug or other electrical wires are touching the fuel line or injectors from the installation point forward. Electrical wires and spark plug wires throw off an electric field which will negate the effect of the **FUEL STRETCHER**. Frayed or worn fan belts may also have the same effect.
8. Clean up work area, check for tools and parts in the engine compartment, wash any fuel off your hands.
9. You are now ready for your **FUEL STRETCHER** mileage test. Congratulations!

FUEL ***STRETCHERS***, Inc.

90 DAY MONEY BACK GUARANTEE 10 YEAR REPLACEMENT WARRANTY

WARRANTY REGISTRATION

Name _____

Address _____

City _____ State _____ Zip _____

Phone _____

Purchased at _____ Date _____

MILEAGE TEST RESULTS

Highway

Emissions

Before: _____ MPG After: _____ MPG Before: _____ HCPPM After: _____ HCPPM

City

Before: _____ CO After: _____ CO

Before: _____ MPG After: _____ MPG

Comments _____

Mileage test results are not required but are *greatly appreciated!* Thank you!

If for any reason you are not completely satisfied, return the **FUEL STRETCHER** to place of purchase within 90 days for a full refund.

When completed, return to **FUEL STRETCHERS, Inc.**

P. O. Box 1451 • Lake Arrowhead, CA 92352-1451

FUEL *STRETCHERS*, Inc.

How the FUEL *STRETCHER* Works...

When the fuel passes through the **FUEL *STRETCHER*** the fuel molecules acquire a negative charge. Since like charges repel one another, the fuel molecules—when they enter the engine—spread out more evenly. This more even distribution of the fuel molecules allows the fuel to be more completely burned, giving your engine more power, better pick-up and greater mileage.

— Mileage Tests —

The only truly accurate way to check your mileage before and after is to fill your tank and drive 100 miles on the highway at a constant speed (55MPH). Go back to the same station/same pump and fill your tank again. Divide the number of miles driven by the number of gallons used, and you have your miles per gallon. Then install the **FUEL *STRETCHER*** and go back to the same station/same pump and fill the tank again. Drive the same 100 miles on the same highway at the same speed (55MPH). Return to the same station/same pump and fill your tank after your second test and divide the miles you have driven by the gallons used and compare these results with those from your test before you installed the **FUEL *STRETCHER***.

— 60 Days —

During the first sixty days, the **FUEL *STRETCHER*** is on your vehicle it will begin to clean out the carbon deposits inside your engine. Change your oil and make sure to check it every time you fill your tank. As the oil becomes dirty—and it will from the carbon being cleaned out of the engine—replace the oil and filter immediately. Once the carbon has been cleaned out, you will be getting even better performance from your car and will be able to go for much longer periods of time between oil changes and tune-ups.

— Savings —

Installing the **FUEL *STRETCHER*** will save you money at the fuel pump, on oil changes, and on tune-ups. It will also give you a cleaner, better-running vehicle.

Thank you for selecting our product!

The **FUEL**
STRETCHER
Rodeuem Fuel Stretcher™

FUEL
STRETCHERS
INC. Lake Arrowhead, CA

Made in the U.S.A.
by: Smith Industries
Washougal, WA
Not legal for sale in California.

Fuel Flow



CERTIFICATE OF CONFIDENTIALITY

This agreement, entered into between LITMAN LAW OFFICES, LTD. and KENNETH W. SMITH, hereinafter known as PROSPECTIVE CLIENT, confirms the terms under which PROSPECTIVE CLIENT will provide to LITMAN LAW OFFICES, LTD. information and material relating to his/her invention, name/logo, and/or work of authorship, for the purpose of evaluation and/or possible representation before the U.S. Patent and Trademark Office and/or the U.S. Copyright Office.

LITMAN LAW OFFICES, LTD. hereby agrees that any and all such information and material submitted to it by PROSPECTIVE CLIENT shall be maintained in strict confidence pursuant to the attorney-client privilege.

LITMAN LAW OFFICES, LTD.

PROSPECTIVE CLIENT

Richard C. Litman

Richard C. Litman, Esquire
Registered Patent Attorney

Signed: *Kenneth W. Smith*

Dated: 05/12/90

COMMONWEALTH OF VIRGINIA)
COUNTY OF ARLINGTON)

) S.S: 486-64-6115

Sworn to and subscribed before me, on

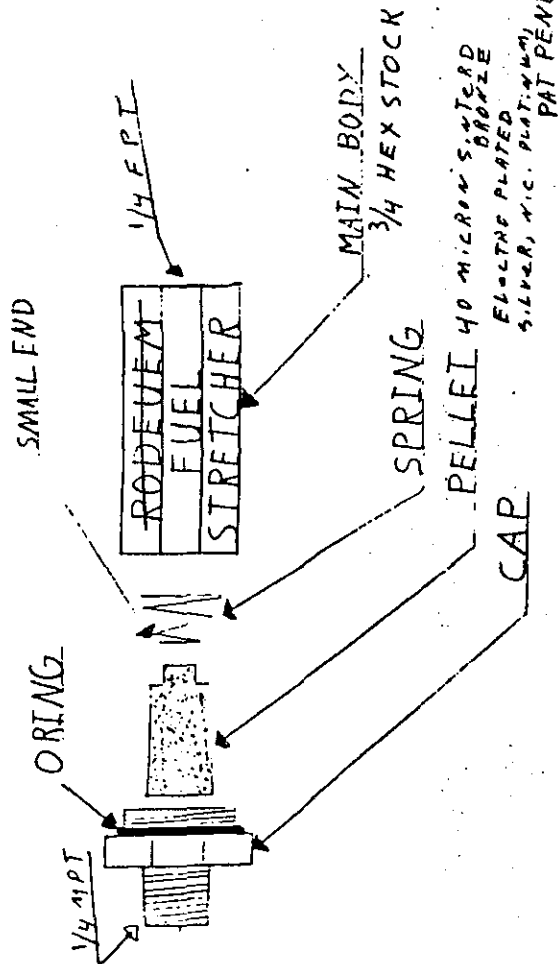
FUEL
STRETCHER
FS 200
FS 300

MAY 12 1990

Bette Etta Sorensen
NOTARY PUBLIC

My Commission Expires January 13, 1992

THIS IS FOR YOUR PROTECTION. KEEP FOR YOUR RECORD.

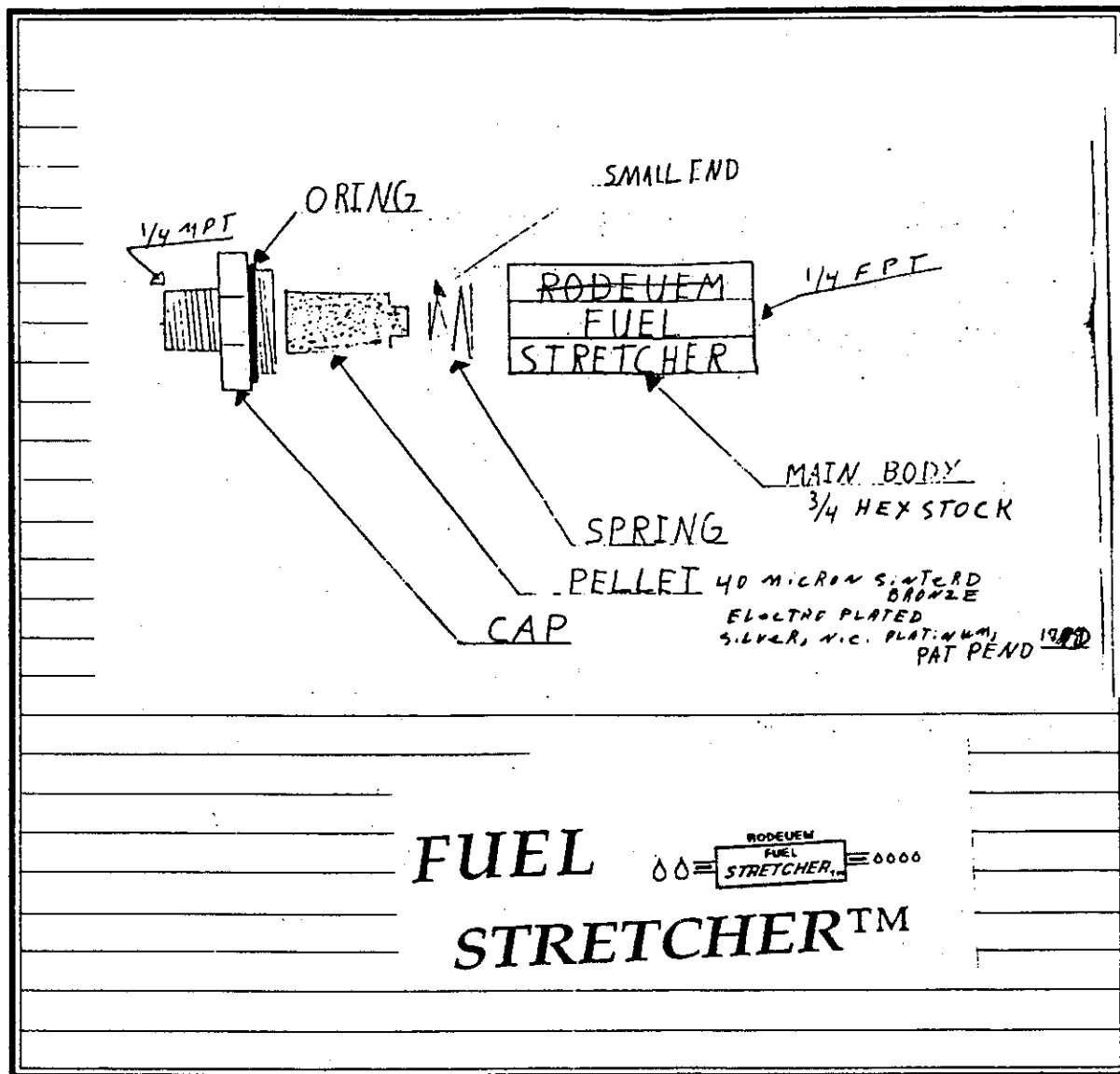


FUEL STRETCHER™
FS 200 FS 300

FOR PATENTS AND TRADEMARKS

INVENTIONS - Please describe your invention, stating how it works and its advantages.

TRADEMARKS - Describe the goods/services for which the mark will be (or is being) used.
If mark is in use, please provide date of first use.



USE ADDITIONAL SHEETS OF PAPER IF NECESSARY

My invention Fits in to the fuel line of gas or diesel engines it is first a 40 micron filter that is easily taken apart for cleaning but because of the make up of the filter element it has some unique abilities such as the platinum has the ability to raise the octane in gasoline or the octane of diesel. The other dissimilar metals combined have an affect called electrolysis which in turn works like a small battery charging the fuel ~~positive~~ the engine is negatively charged already so it makes the fuel atomize better so more of the fuel can burn so you back off the throttle more so in turn you use less fuel and what you do use is burned more completely

FUEL ***STRETCHERS, INC.***

PRESS RELEASE

At last there is relief for the millions of Americans who are paying increasingly higher prices at the gas pump, FUEL STRETCHERS, INC. of Lake Arrowhead, Ca. announces the release of a revolutionary new fuel saving device called "THE FUEL STRETCHER". THE FUEL STRETCHER can be used on gasoline and diesel engines using fuel injection or carburetors. Models are available for autos, trucks and boats.

THE FUEL STRETCHER incorporates a 40-micron in-line fuel filter. When the fuel passes through this patent pending device, the fuel molecules acquire a negative charge. Since like charges repel one another, the fuel molecules spread out more evenly in the engine. As the fuel is more evenly disbursed in the engine, when it burns, it does so more completely. This more complete burning of the fuel creates more power, better pick-up and greater mileage. Fuel mileage increases range from 10% to 35% depending on the vehicle.

THE FUEL STRETCHER installs in minutes right in the fuel line. THE FUEL STRETCHER comes with a 90-day money back guarantee and a 10-year replacement warranty. THE FUEL STRETCHER will be available nationwide at automotive, truck and boating parts stores in the next few months. The FS-200 unit for engines up to 350 CID will sell for \$125.00 and the FS-300 unit for larger engines and semi-trucks will sell for \$180.00.

For additional information contact: FUEL STRETCHERS, INC., 1317 Yellowstone Drive, Box 1451, Lake Arrowhead, CA 92352 or call (714) 337-0017.

ATTN: EDITORIAL DEPT.

If you would be interested in doing a Before and After test as a follow-up article to this press release, we would be happy to furnish you with a unit for testing.