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Name (line 1) AIR PRODUCTS AND CHEMICALS, INC.

Name (line 2)

Second Party

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Name (line 2)

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Name (line 1) UNITED STATES DEPARTMENT OF ENERGY

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PATENT

REEL: 014924 FRAME: 0681

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630-252-2042

Name ROBERT J. FISHER

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/517,712

If this document is being filed together with a new Patent Application, enter the date the patent application
was

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Patent Cooperation Treaty (PCT)

Enter PCT application number
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CONFIRMATORY LICENSE

(Large Business - Advance Waiver)

Title : *Synthesis Gas Production by Mixed Conducting Membranes with Integrated Conversion into Liquid Products*

Inventor(s) : *Shankar Nataraj; Steven Lee Russek; and Paul Nigel Dyer*

Serial No. : *09/157,712* Filing Date (U.S.): *September 21, 1998*

Contractor : *Air Products and Chemicals, Inc.*

DOE Contract No. : *DE-FC26-97FT96052*

Waiver No. : *W(A)-97-035 (CH-0938)*

Patent Clause : *52.227-12 Patent Rights - Waiver (JUL 1996) with 952.227.14 Rights in Data - General (DOE coverage-Alternate VI) (Feb 1998)*

DOE Case No. : *S-95,182 - Docket No. 173PUS05840*

Foreign Applications filed in or intended to be filed at Contractor's expense in (countries):

Australia, Canada, Norway, European Patent Office

An advance waiver of Government rights having been granted by DOE to the Contractor, and the above-identified invention having been reported as a subject invention to DOE by the contractor with his election to file a domestic patent application thereon, and foreign applications in the countries noted above, the effective date of said waiver for the above invention is

March 6, 2000

Accordingly, this document is confirmatory of the paid-up, worldwide, license required to be granted to the Government under 10 CFR Part 784 and this contract in this invention, patent application and any resulting patent, and of all other rights acquired by the Government by the referenced clause, a copy of which is attached hereto and incorporated by reference herein. The undersigned certifies the attached copy to be a true copy of said clause. It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 27th day of June, 1999 2001

(SEAL)

Air Products and Chemicals, Inc.

(Contractor)

By Miles P. Drake

(Contractor's Official and Title)

Vice President and Chief Technology Officer

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