

PATENT AGREEMENT

Dec. 22nd, 1943

In consideration of and as an inducement to the Metallurgical Laboratory of the University of Chicago to employ me, and in recognition of the fact that the Metallurgical Laboratory is engaged exclusively in the performance of a contract with the Government of the United States, I hereby agree:

1. That the services for which I am employed and paid include the improvement of the processes, apparatus, machines, and appliances which the Metallurgical Laboratory is utilizing in the course of its work and all researches related thereto.

2. That every invention or improvement developed by me during the course of such employment pertaining to the work now or hereafter carried on by the Metallurgical Laboratory, shall become the property of the Government of the United States.

3. To disclose promptly and fully all information concerning all such inventions or improvements to the Director of the Laboratory or such employee of the Laboratory as he may designate, and to assist the Metallurgical Laboratory and its officers and agents designated for that purpose in every possible way to obtain for the Government of the United States patents on any and all such inventions or improvements in the United States and in any and all foreign countries.

4. To assign by effective written instruments in such forms as may be determined by the Metallurgical Laboratory of the University of Chicago my entire right, title, and interest in and to each, every, and all such inventions and improvements to become the property of the Government of the United States and to be and remain its property whether patented or not.

5. To grant the Government of the United States full and exclusive power and right to prosecute at its expense by its attorney or attorneys any and all such applications for patents made by me pursuant to this agreement, and any and all proceedings in connection therewith, and to give such assistance and information and to execute all such applications for letters patent and other papers necessary or desirable to carry this agreement into effect.

L.S. J. C. S. It is understood and agreed that the above patent release is  
12-22-43 effective as of May 1, 1943.

Subscribed and sworn to  
before me, this 22nd  
day of December, 1943

(Signed) Leo Szilard

Lucartha P. Sullivan (Signed)  
Notary Public

†

What is claimed is:

1. A power plant comprising a neutronic reactor, a tube extending into said reactor, a neutron absorbing liquid in said tube, and means for changing the amount of the liquid in said tube to control said reactor.

2. A power plant comprising a neutronic reactor, a tube extending in a vertical direction into said reactor, a neutron absorbing liquid in said tube and means for changing the level of the liquid in said tube to control said reactor.

3. A power plant comprising a neutronic reactor, a tube extending in a vertical direction into said reactor, a liquid metal in said tube and means for changing the level of the liquid metal in said tube to control said reactor.

4. A power plant comprising a neutronic reactor, a tube extending in a vertical direction into said reactor, a liquid metal containing bismuth in said tube and means for changing the level of the liquid metal in said tube to control said reactor.

5. A power plant comprising a neutronic reactor, a tube extending in a vertical direction into said reactor, a liquid bismuth containing a strong neutron absorber in said tube, and means for changing the level of the liquid bismuth in said tube to control said reactor.

6. A power plant comprising a neutronic reactor, a tube extending into said reactor, a neutron absorbing liquid in said tube, means for changing the amount of the liquid in said tube to control said reactor, and means for cooling the liquid.

7. A power plant comprising a neutronic reactor, a tube extending in a vertical direction into said reactor, a neutron absorbing liquid in said tube, means for changing the level of the liquid in said tube to control said reactor, and means for cooling the liquid.

8. A power plant comprising a neutronic reactor, a tube extending in a vertical direction into said reactor, a liquid metal in said tube, means for changing the level of the liquid metal in said tube to control said reactor, and means for cooling the liquid metal.

9. A power plant comprising a neutronic reactor, a tube extending in a vertical direction into said reactor, a liquid metal containing bismuth in said tube, means for changing the level of the liquid metal in said tube to control said reactor, and means for cooling the bismuth.

10. A power plant comprising a neutronic reactor, a tube extending in a vertical direction into said reactor, a neutron absorbing liquid in said tube, an exterior tank connected to the bottom of said tube and also containing said liquid to establish a liquid level common to said tube and tank, and means for moving said liquid into and out of said tank to vary the liquid level in said tube.

11. Apparatus in accordance with Claim 10 where the normal liquid level is such as to stop the operation of said reactor.

12. A power plant comprising a neutronic reactor, a system adapted to conduct a metal normally solid at ambient temperatures through said reactor, means for heating said reactor and said system to liquify said metal, and means for circulating said liquid metal through said reactor.

13. In combination, a neutronic reactor having uranium bodies dispersed in a neutron moderator, and a liquid metal comprising bismuth in said reactor in an amount between about one-half of the weight to the total weight of the uranium in the reactor not substantially greater than the weight of the uranium in said reactor.

14. The method of cooling a neutronic reactor having discrete bodies containing uranium disposed in a moderator comprising passing a liquid metal coolant through said reactor in contact with said bodies.

15. The method of cooling a neutronic reactor having discrete bodies containing uranium disposed in a moderator comprising passing a liquid metal coolant through said reactor in contact with the interior of said bodies.

16. The method of cooling a neutronic reactor having discrete bodies containing uranium disposed in a moderator comprising passing a liquid metal coolant through said reactor in contact with the exterior of said bodies.

17. The method of cooling a neutronic reactor having discrete bodies containing uranium disposed in a moderator comprising passing a liquid metal containing bismuth through said reactor in contact with said bodies.

18. The method of cooling a neutronic reactor having discrete bodies containing uranium disposed in a moderator comprising passing a liquid metal containing bismuth through said reactor in contact with the interior of said bodies.

19. The method of cooling a neutronic reactor having discrete bodies containing uranium disposed in a moderator comprising passing a liquid metal containing bismuth through said reactor in contact with the exterior of said bodies.

20. The method of cooling a reactor comprising passing a liquid bismuth through said reactor to remove the heat of reactor operation, shutting down the reactor, continuing the passage of said liquid bismuth and reducing the melting point of said bismuth by adding lead thereto.

21. A device for producing heat energy for power comprising bodies containing uranium geometrically arranged in an efficient, low neutron-absorbing, neutron slowing-down material, passages through said bodies, a fluid, means passing the fluid through the passages in the uranium bodies so as to extract heat from the walls of said passages, means extracting

the heat from the fluid, and means circulating the fluid in said heat exchange relationship at a sufficient rate to stabilize the temperature in said device.

22. The method of extracting heat from a self-sustaining neutron chain reacting system employing a fissionable material and an efficient neutron slowing material capable of slowing fast neutrons to thermal energy comprising passing a fluid having a danger coefficient less than one in heat exchange relationship with the fissionable material, and then removing the fluid from the system.

23. For use in a neutron chain reacting system, a uranium body having a passage therethrough for circulation of a coolant therethrough.

24. For use in a neutron chain reacting system, a fissionable material in the form of a body having a passage therethrough for circulation of a coolant therethrough.

25. For use in a neutron chain reacting system, a fissionable material in the form of a body cylindrical in form and having a passage therethrough for circulation of a coolant therethrough.

26. A neutronic reactor comprising a moderator having channels therein, masses comprising uranium and smaller in diameter than said channels positioned along the channels, said channels being adapted to conduct a coolant into contact with the masses.

27. A neutronic reactor comprising a moderator having channels therein, masses comprising fissionable material and smaller in diameter than said channels positioned along the channels, and means passing a coolant through the channels in contact with the masses.

28. In a neutronic chain reacting system, a neutron moderator having channels therein, means for passing a fluid coolant through said channels, and a plurality of uranium rods positioned in said channels.

29. In a chain neutron reacting system operating by virtue of nuclear fission of a fissionable material, means for abstracting the heat of fission comprising a body of fluid in heat exchange relationship with the fissionable material in the system.

30. The method of cooling a neutronic reactor having a moderator and uranium bodies dispersed therein comprising passing a liquid metal containing bismuth in heat exchange relation to said uranium.

31. The method of cooling a neutronic reactor having a moderator and uranium bodies dispersed therein comprising passing a liquid metal containing bismuth through the interior of said bodies.

32. The method of cooling a neutronic reactor having a moderator and uranium bodies dispersed therein comprising passing a liquid metal containing bismuth in heat exchange relation with the exterior of said bodies.

33. The method of operating a neutronic reactor comprising passing a coolant through said reactor, and removing from said coolant a radioactive element formed by neutron absorption by said coolant.

34. The method of operating a neutronic reactor comprising passing bismuth through said reactor and removing from the reactor polonium formed by neutron absorption by said bismuth.

35. The method of transmitting elements comprising repeatedly passing said elements through a neutronic reactor, removing heat from said elements between passes, and thereafter recovering from said elements different elements formed by neutron absorption during said passes.

36. A neutronic reactor comprising a moderator, uranium bodies dispersed in said moderator, coolant tubes positioned in heat exchange relation to said uranium bodies, and a liquid metal coolant in said coolant tubes.

37. A neutronic reactor comprising a moderator, uranium bodies dispersed in said moderator, coolant tubes positioned in heat exchange relation to said uranium bodies, and a liquid metal comprising bismuth in said coolant tubes.

38. A neutronic reactor comprising a moderator, uranium bodies dispersed in said moderator, coolant tubes positioned in heat exchange relation to said uranium bodies, and a liquid metal of low neutron capture cross-section in said coolant tubes.

39. A neutronic reactor comprising a moderator, uranium bodies dispersed in said moderator, coolant tubes positioned in heat exchange relation to said uranium bodies, and a liquid metal bismuth alloy in said coolant tubes.

40. A neutronic reactor comprising a moderator, uranium bodies in said moderator, and means for conducting a liquid metal coolant in heat exchange relation with said uranium bodies.

41. A neutronic reactor comprising a moderator, uranium bodies in said moderator, and means for conducting a liquid metal coolant through the interior of said bodies.

42. A neutronic reactor comprising a moderator, uranium bodies in said moderator and means for conducting a liquid metal coolant over the exterior surface of said bodies.

43. A neutronic reactor comprising a moderator, uranium bodies in said moderator, and means for conducting a liquid metal coolant between said bodies and said moderator.

44. A neutronic reactor comprising a liquid moderator, uranium bodies dispersed in said moderator, means for conducting a liquid coolant through said moderator, means for conducting a liquid coolant through said bodies at a temperature higher than the boiling point of said moderator, and means providing heat insulation between said bodies and said moderator.

45. A neutronic reactor comprising a liquid moderator, uranium bodies dispersed in said moderator, means for conducting a liquid coolant through said bodies at a temperature higher than the boiling point of said moderator, and means providing a heat insulating space between said bodies and said moderator.

46. A neutronic reactor comprising a liquid moderator, uranium bodies dispersed in said moderator, means for conducting a liquid coolant through said bodies at a temperature higher than the boiling point of said moderator, and means providing a gaseous barrier between said bodies and said moderator.

\* 47. A neutronic reactor comprising a liquid moderator, uranium bodies dispersed in said moderator, means for conducting a liquid coolant through said bodies at a temperature higher than the boiling point of said moderator, and means providing a space filled with helium between said bodies and said moderator.

48. A neutronic reactor system comprising a neutronic reactor, and a primary circulating system operating to cool and recirculate a coolant through said reactor to be made radioactive thereby.

49. The method of operating a neutronic reactor having discrete uranium bodies disposed in a neutron moderator comprising maintaining the uranium at a lower temperature than that prevailing in the moderator.



50. The method of operating a neutronic reactor having discrete uranium bodies disposed in a neutron moderator comprising cooling the uranium to a lower temperature than that prevailing in the moderator.

51. The features of novelty herein shown and/or described.

## PATENT AGREEMENT

Whereas, Columbia University has entered into a contract or contracts with the Director, Office of Scientific Research and Development in the Office for Emergency Management, Executive Office of the President, as contracting officer for the United States of America, for conducting certain studies and experimental investigations in connection with the development of methods and equipment of use in national defense;

and whereas, under the terms of the said contract or contracts it is understood and agreed that whenever any patentable discovery or invention is made by the Contractor or its employees in the course of the work under this contract or these contracts, the Director, Office of Scientific Research and Development, shall have the sole power to determine whether or not a patent application shall be filed, and to determine the disposition of the title to and the rights under any application or patent that may result; and it is further understood and agreed that the judgment of the Director, Office of Scientific Research and Development, on such matters shall be accepted as final, and the Contractor, for itself and for its employees, agrees that the inventor or inventors will execute all documents and do all things necessary or proper to carry out the judgment of the Director, Office of Scientific Research and Development; and the Contractor agrees that it will include the provisions of this paragraph in all contracts of employment with persons who do any part of the work, investigations, and developments called for in the contract or contracts;

and whereas, the undersigned has accepted employment by Columbia University to assist the University in carrying out the terms of the said contract or contracts,

the undersigned agrees that he will promptly report and communicate to the Director, National Defense Laboratories of Columbia University, or to such other individuals as the University may from time to time designate, any and all inventions relating to or arising from the work on which he is employed or which he may make from the time of entering the employment of Columbia University to assist in carrying out the said contract or contracts until he leaves said employment,

and that he will, under the direction of the Director of the Columbia University-National Defense Laboratories or such other individuals as the University may from time to time designate, do whatever is necessary to take out patents on these inventions or discoveries in all or any countries as and when requested before or after leaving its employment, and will assign the inventions and all patents and applications relating to them to Columbia University as and when requested before or after leaving its employment, it being understood that the necessary cost and expense of making such assignments and procuring such Letters Patent shall be paid by others than the inventor,

and further that the undersigned recognizes that the making of such inventions and transferring them to Columbia University is an important part of the work under the contract or contracts with the United States of America under which he is employed by Columbia University,

and further that the undersigned understands and agrees that if and when he makes any patentable discovery or invention in the course of this employment, the Director, Office of Scientific Research and Development, shall, in accordance with the said contract or contracts, have the sole power to determine whether or not Columbia University shall require the undersigned to file a patent application, and that under the contract or contracts the Director, Office of Scientific Research and Development, shall have the sole and final power to determine the disposition of the title to and the rights under any application or patent that may result,

and the undersigned further agrees that he will execute all documents and do all things necessary or proper to carry out the judgment of the Director, Office of Scientific Research and Development.

\_\_\_\_\_  
Signature

Subscribed and sworn to before

me this \_\_\_\_\_ day of \_\_\_\_\_,

A.D. 19\_\_ at \_\_\_\_\_,  
(City or Place)

\_\_\_\_\_  
(State)

(Seal) \_\_\_\_\_

Note: If the oath is taken before a Notary Public the date of expiration of his commission should be shown.

*Copy*

STATE OF NEW YORK )  
                          ) SS:  
COUNTY OF NEW YORK )

LEO SZILARD, being duly sworn, deposes and says:

The only bank account which I have in the United States is the one with the Chase National Bank. The present balance in this bank account, as of August 30, 1943, is \$1,042.87. I may have another bank account in England. If so, the balance would be less than \$500.00, but I have not received any statements from England for years.

Of securities I bought 3000 shares Eldorado Gold Mine Ltd. in Canada in 1939. I gave orders last Monday to sell these shares. I believe the value of these shares is less than \$1500.00.

Some time ago I bought \$400. war bonds, but on September 3, 1943 I sent them back to the Federal Reserve Bank for a refund. I have no other stocks or bonds.

I have not applied for any patents since March 20, 1939, when I applied for the patent which was abandoned.

Sworn to before me this  
9th day of September, 1943.

\_\_\_\_\_



**PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL**

D. O. Vou. No. \_\_\_\_\_  
 Bu. Vou. No. \_\_\_\_\_

**GENERAL ACCOUNTING OFFICE PRAUDIT**  
 Certified for payment in the sum of \$ \_\_\_\_\_  
 Comptroller General of the United States  
 By \_\_\_\_\_

U. S. ~~SECRET~~ **WAR ENGINEERS**  
 (Department, bureau, or establishment)  
 Voucher prepared at Oak Ridge, Tennessee 4 Aug. 1944  
 (Give place and date)  
**THE UNITED STATES, Dr.,**  
 To Leo Szilard (Payee)  
 Address \_\_\_\_\_  
 Payee's Account No. \_\_\_\_\_

**PAID BY**  
 (For use of Paying Office)

No. and Date of Order	Date of Delivery or Service	Articles or Services (Enter description, item number of contract or general supply schedule, and other information deemed necessary) Terms _____ % Discount Cash _____ days	Quantity	UNIT PRICE		AMOUNT	
				Cost	Per	Dollars	Cts.
Contract		Brought forward from continuation sheet(s)					
		Payment for Sale of Patent Rights and Privileges in accordance with contract  (First and Final Payment under this contract)			15,417	60	
		Formal Contract not filed in O.C.E.					

Shipped from \_\_\_\_\_ to \_\_\_\_\_ Weight \_\_\_\_\_ Government B/L No. \_\_\_\_\_ Total 15,417.60

I certify that the above bill is correct and just; that payment therefor has not been received; that all statutory requirements as to American production and labor standards, and all conditions of purchase applicable to the transactions have been complied with; and that State or local sales taxes are not included in the amounts billed.

(Payee must NOT use this space)

Differences		
Account verified; correct for	15,417	60
(Signature or initials)		

\*Payee (This certificate not required when a like certificate is made by payee on attached bill or bills) (Sign original only)  
 Per LEO SZILARD Title \_\_\_\_\_

Contract No. W-7401-eng-156 Date \_\_\_\_\_ Req. No. \_\_\_\_\_ Date \_\_\_\_\_ Invoice Rec'd \_\_\_\_\_

Pursuant to authority vested in me, I certify that the above articles were received in good condition, after due inspection, acceptance, and delivery prior to payment as required by law, or the services were performed as stated; that they were procured under the contract numbered above or the unnumbered contract attached hereto, or that they were procured without written contract, in open market, and with or without advertising, under the circumstances stated in No. 4 of "Method of or Absence of Advertising" shown on reverse hereof, and were necessary for the public service; and that the prices charged are just and reasonable and in accordance with the agreement.

† Approved for \$ 15,417.60 (Sign original only) † NOT NECESSARY  
 Title NOT NECESSARY

**ACCOUNTING CLASSIFICATION (for completion by Administrative Office)**

Appropriation, limitation, or project symbol	Appropriation title	Limit'n or Proj't Amount	Appropriation Amount
<u>210/50141</u>	<u>EPES 1940-45;</u> <u>508-2401 P110-07</u>		<u>15,417.60</u>

Allotment symbol	Amount	Obligations liquidated	COST ACCOUNT		OBJECTIVE CLASSIFICATION	
			Symbol	Amount	Symbol	Amount

Paid by { Check No. \_\_\_\_\_ dated \_\_\_\_\_, 19\_\_\_\_, for \$ 15,417.60 } on Treasurer of the United States in favor of  
 { Cash, \$ \_\_\_\_\_, on \_\_\_\_\_, 19\_\_\_\_, Payee \_\_\_\_\_ } payee named above.  
 (Sign original only)

\* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary" or "Secretary of the said company."  
 † If the ability to certify and authority to approve are combined in one person, one signature only is necessary, otherwise the approving officer will sign in the blank space below "Approved for \$ \_\_\_\_\_", and over his official title.

~~SECRET~~

Per NOT NECESSARY  
 Title NOT NECESSARY

# METHOD OF OR ABSENCE OF ADVERTISING

(Sec. 3709 of the Revised Statutes)

1. After advertising in newspapers.
2. (a) After advertising by circular letters sent to ..... dealers.  
(b) And by notices posted in public places.

(If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made. The notation on the certificate on the face of the voucher must be "2(a)(b)" or "2(a)", depending on whether or not notices were posted.)

3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with .....
5. Without advertising, it being impracticable to secure competition because of .....

(Here state in detail the nature of the exigency or circumstances under which the securing of competition was impracticable under 3 and 4)

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal, and acceptance, or less formal agreement) Standard Form No. 1036—Revised should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, Supplement No. 6, General Accounting Office, Aug. 20, 1930.)

THIS DOCUMENT HAS BEEN  
TAKEN FROM A FILE OF THE  
ARGONNE NATIONAL LABORATORY  
AND WAS TURNED OVER TO  
DR. LEO SZILARD ON

Aug. 29, 1956.

*Darren C. Johnson*

9699

**PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL**

**SECRET** *J.P.M.*

D. O. Vou. No. \_\_\_\_\_  
Su. Vou. No. LSZ-1

**GENERAL ACCOUNTING OFFICE PREAUDIT**  
Certified for payment in the sum of \$ \_\_\_\_\_  
Comptroller General of the United States  
By \_\_\_\_\_

U. S. WAR DEPARTMENT - ENGINEERS  
(Department, bureau, or establishment)  
Voucher prepared at Oak Ridge, Tenn. 1 November 1944  
(Give place and date)  
**THE UNITED STATES, Dr.,**  
To Leo Szilard  
(Payee)  
Address Chicago, Illinois  
Payee's Account No. \_\_\_\_\_

**PAID BY**  
  
  
(For use of Paying Office)

No. and Date of Order	Date of Delivery or Service	Articles or Services (Enter description, item number of contract or general supply schedule, and other information deemed necessary) Terms _____ % Discount Cash _____ days	Quantity	UNIT PRICE		AMOUNT	
				Cost	Per	Dollars	Cts.
		Brought forward from continuation sheet(s)					
		First and Final Payment under Contract					

Shipped from \_\_\_\_\_ to \_\_\_\_\_ Weight \_\_\_\_\_ Government B/L No. \_\_\_\_\_ Total \_\_\_\_\_

I certify that the above bill is correct and just; that payment therefor has not been received; that all statutory requirements as to American production and labor standards, and all conditions of purchase applicable to the transactions have been complied with, and that State or local sales taxes are not included in the amount billed. Certificate on reverse made a part hereof.  
\*Payee \_\_\_\_\_ (Sign original only)  
(This certificate not required when a like certificate is made by payee on attached bill or bills)  
Per Leo Szilard Title \_\_\_\_\_

(Payee must NOT use this space)  
Differences \_\_\_\_\_  
Account verified; correct for \_\_\_\_\_  
(Signature or initials)

Contract No. W-7401-eng-156 Date 12-1-43 Req. No. \_\_\_\_\_ Date \_\_\_\_\_ Invoice Rec'd \_\_\_\_\_

Pursuant to authority vested in me, I certify that the above articles were received in good condition, after due inspection, acceptance, and delivery prior to payment as required by law, or the services were performed as stated; that they were procured under the contract numbered above or the unnumbered contract attached hereto, or that they were procured without written contract, in open market, and with or without advertising, under the circumstances stated in No. \_\_\_\_\_ of "Method of or Absence of Advertising" shown on reverse hereof, and were necessary for the public service; and that the prices charged are just and reasonable and in accordance with the agreement.

†Approved for \$ \_\_\_\_\_ (Sign original only) † \_\_\_\_\_  
Title \_\_\_\_\_

H. S. CARTER  
Chief Project Auditor

**ACCOUNTING CLASSIFICATION (for completion by Administrative Office)**

Appropriation, limitation, or project symbol	Appropriation title		Limit'n or Proj't Amount	Appropriation Amount		
	Amount	Obligations liquidated				
210/50141	508-2401 P110-07	S 40-118				
Allotment symbol	Amount	Obligations liquidated	COST ACCOUNT		OBJECTIVE CLASSIFICATION	
			Symbol	Amount	Symbol	Amount

Paid by { Check No. \_\_\_\_\_ dated \_\_\_\_\_, 19\_\_\_\_, for \$ \_\_\_\_\_ } on Treasurer of the United States in favor of  
{ Cash, \$ \_\_\_\_\_, on \_\_\_\_\_, 19\_\_\_\_, Payee \_\_\_\_\_ } payee named above.  
(Sign original only)

\* When a voucher is signed or accepted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary", or "Treasurer", as the case may be.  
† If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign in the blank space below "Approved for \$ \_\_\_\_\_", and cover his official title.

**SECRET**

Per \_\_\_\_\_  
Title \_\_\_\_\_



METHOD OF OR ABSENCE OF ADVERTISING

(Section 3709 of the Revised Statutes)

- 1. After advertising in newspapers.
2. (a) After advertising by circular letters sent to ... dealers.
(b) And by notices posted in public places.

(If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made. The notation on the certificate on the face of the voucher must be "2(a)(b)" or "2(a)", depending on whether or not notices were posted.)

- 3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with ...
5. Without advertising, it being impracticable to secure competition because of ...

(Here state in detail the nature of the exigency or circumstances under which the securing of competition was impracticable under 3 and 4)

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal, and acceptance, or less formal agreement) Standard Form No. 1036—Revised should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, Supplement No. 6, General Accounting Office, Aug. 20, 1930.)

16-22900-1

I further certify that the amount of this voucher is accepted as full and complete payment of the consideration set forth in the contract, and waive claim to any additional right of compensation arising from the contract.

THIS DOCUMENT HAS BEEN TAKEN FROM A FILE OF THE ARGONNE NATIONAL LABORATORY AND WAS TURNED OVER TO DR. LEO SZILARD ON

Aug 29, 1966

Daven C. Johnson

Administrative routing and filing stamps, including a large 'SECRET' stamp at the bottom center.

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

4152

**SECRET**

D. O. Vou. No.

Bu. Vou. No. 132-1

GENERAL ACCOUNTING  
 OFFICE PREAUDIT

Certified for payment in the  
 sum of \$

Comptroller General of the  
 United States

By

U. S. WAR DEPARTMENT - ENGINEERS  
 (Department, bureau, or establishment)

Voucher prepared at Oak Ridge, Tenn. 14 November 1944  
 (Give place and date)

THE UNITED STATES, Dr.,

To Leo Sullard (Payee)

Address Chicago, Illinois.

Payee's Account No.

PAID BY

C. VANDEN BULCK  
 LT. COL. C. E. U.S.A.  
 211-500

(For use of Paying Office)

No. and Date of Order	Date of Delivery or Service	Articles or Services (Enter description, item number of contract or general supply schedule, and other information deemed necessary) Terms % Discount Cash days	Quantity	UNIT PRICE		AMOUNT	
				Cost	Per	Dollars	Cts.
		Brought forward from continuation sheet(s)					
		Payment in accordance with the terms of the contract as stated herein.					\$15,417.60
						Total	\$15,417.60

Return to Payee with Check

Shipped from	to	Weight	Government B/L No.	Total	\$15,417.60
				(Payee must NOT use this space)	
				Differences	
				Account verified; correct for	\$15,417.60
				(Signature or initials)	

Leo Sullard

Contract No. W-7401-eng-136 Date 11-1-44 Req. No. Date Invoice Rec'd

MEMORANDUM

H. S. CARTER  
 Chief Project Auditor

J. H. Mc KINLEY  
 Captain, Corps of Engineers  
 Area Engineer

ACCOUNTING CLASSIFICATION (for completion by Administrative Office)

Appropriation, limitation, or project symbol	Appropriation title		Limit'n or Proj't Amount	Appropriation Amount		
	210/50161	508-2401 P110-07 S 40-118			15,417.60	
Allotment symbol	Amount	Obligations liquidated	COST ACCOUNT		OBJECTIVE CLASSIFICATION	
			Symbol	Amount	Symbol	Amount
			11 183	15,417.60	1110020	

Paid by { Check No. 50328 dated NOV 21 1944 for \$ 15,417.60 } on Treasurer of the United States in favor of payee named above.  
 { Cash, \$ on 19 Payee (Sign original only)

\* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary", or "Treasurer", as the case may be.  
 † If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign in the blank space below "Approved for \$", and over his official title.

**SECRET**

14555

20421

### METHOD OF OR ABSENCE OF ADVERTISING

(Section 3709 of the Revised Statutes)

1. After advertising in newspapers.
2. (a) After advertising by circular letters sent to ..... dealers.  
 (b) And by notices posted in public places.  
 (If notices were not posted in addition to advertising by circular letters sent to dealers, explanation of such omission must be made. The notation on the certificate on the face of the voucher must be "2(a)(b)" or "2(a)", depending on whether or not notices were posted.)
3. Without advertising, under an exigency of the service which existed prior to the order and would not admit of the delay incident to advertising.
4. Without advertising in accordance with .....
5. Without advertising, it being impracticable to secure competition because of .....

(Here state in detail the nature of the exigency or circumstances under which the securing of competition was impracticable under 3 and 4)

NOTE.—The above form "Method of or Absence of Advertising" is to be used when purchases are made or services secured under proper authority without written agreement in any form. In case of a written agreement (formal contract, proposal, and acceptance, or less formal agreement) Standard Form No. 1036—Revised should be used for abstracting the method of or absence of advertising and award of contract. (See General Regulations No. 51, Supplement No. 6, General Accounting Office, Aug. 20, 1930.)

16-22900-1

*Walter C. Johnson*  
Aug. 29, 1956

THIS DOCUMENT HAS BEEN  
TAKEN FROM A FILE OF THE  
ARGONNE NATIONAL LABORATORY  
AND WAS TURNED OVER TO  
DR. LEO SZILARD ON

511-200  
CL' COG' C' E' R' S' V'  
C' AVDEN' BUDCK  
EVID 14

SECRET

~~SECRET~~

*MRD*

THIS DOCUMENT HAS BEEN  
TAKEN FROM A FILE OF THE  
ARGONNE NATIONAL LABORATORY  
AND WAS TURNED OVER TO  
DR. LEO SZILARD ON JANUARY 1st 1951

MEMORANDUM OF AGREEMENT

December 1st, 1943 between Leo Szilard of Chicago, Illinois  
(hereinafter referred to as Szilard) and the Government of  
the United States (hereinafter referred to as the Government)  
represented for the purpose hereof by the Contracting Officer  
of the United States Engineers, Manhattan District, War  
Department.

WHEREAS, Szilard, as joint inventor, has invented  
certain new and useful improvements in Methods for Testing  
Materials, for which he is about to file an application for  
U. S. Letters Patent, identified as S-1/501, and believes  
that he now owns the hereinafter granted rights, privileges,  
and interests relative thereto, and

WHEREAS, Szilard believes that he is the sole or joint  
inventor of certain inventions, discoveries and improvements  
in the field of Nuclear Physics made prior to 1 November  
1940; and

WHEREAS, Szilard believes that he is now the owner of  
the entire right, title and interest in and to all of the  
hereinafter granted inventions, discoveries and improvements  
made by him in the field of Nuclear Physics prior to 1  
November 1940 and that he is now the owner of an undivided  
right, title and interest in and to any and all of the  
hereinafter granted inventions, discoveries and improvements  
jointly made by him with others in the field of Nuclear  
Physics prior to 1 November 1940; and

WHEREAS, Szilard believes that he is the sole or joint  
inventor of certain inventions, discoveries and improvements  
in the field of Nuclear Physics made after 1 November 1940,  
and alone or jointly has conceived and developed methods,  
apparatus, devices and compositions in said field after 1  
November 1940, all while in the employ of the Trustees of

2175

~~SECRET~~

~~SECRET~~

THIS DOCUMENT HAS BEEN  
REMOVED FROM A FILE OF THE  
ARGONNE NATIONAL LABORATORY  
AND WAS TURNED OVER TO  
DR. LEO SZILARD  
1950

Columbia University in the City of New York and/or the University of Chicago starting 1 November 1940, pursuant to certain employment agreements with said Universities, respectively, and believes that he now owns the hereinafter granted rights, privileges, and interests relative thereto, and admits that he is obligated to do whatever is necessary to take out patents on any and all inventions, discoveries, and improvements in any and all countries made by him during the periods of his said employments as and when requested by the Trustees of Columbia University in the City of New York and/or The University of Chicago and to assign upon request of the Trustees of Columbia University in the City of New York and/or The University of Chicago all rights, title and interest in and to any and all sole or joint inventions, discoveries and improvements thereon, as well as any and all patents and applications therefor to the Trustees of Columbia University in the City of New York and/or The University of Chicago or to other assignees designated by the Trustees of Columbia University in the City of New York and/or The University of Chicago; and

WHEREAS, the Government is desirous of acquiring the rights, privileges and interests hereinafter granted and believed to be at the present time owned by Szilard in and to said applications to be filed and identified as S-1/501, for Method of Testing Materials and in and to the inventions, discoveries and improvements disclosed therein; and the entire right, title and interest of Szilard in and to any and all sole or joint inventions, discoveries and improvements in the field of Nuclear Physics made prior to 1 November 1940 and now believed to be owned by Szilard with the exception of United States Letters Patent No. 2161,985

~~SECRET~~

~~SECRET~~

issued to Szilard 3 June 1939 and entitled "Process of Producing Radioactive Elements," British Patent No. 440023, and Secret British Patent assigned to the British Government in 1936, or the inventions covered by said patents, or any of them; and

WHEREAS, the Government is desirous of acquiring Szilard's entire right, title and interest in and to any and all sole or joint inventions, discoveries and improvements made by Szilard while employed by the Trustees of Columbia University in the City of New York and/or the University of Chicago on behalf of the Government;

NOW THEREFORE to all whom it may concern, be it known that for and in consideration of the sum of Fifteen Thousand Four Hundred Seventeen Dollars and Sixty Cents (\$15,417.60) to Szilard, in hand paid by the Government and for other good and valuable considerations, the receipt of which is hereby acknowledged:

1. Szilard has sold, assigned, and transferred, and by these presents does sell, assign and transfer unto the Government as represented for the purpose hereof, by the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President and/or his assigns, his entire right, title and interest that he now owns as joint inventor in the United States Patent Application, to be filed and identified as S-1/501, for the Method of Testing Materials and in and to the inventions, discoveries and improvements disclosed in said United States Patent application to be filed.

2. Szilard has sold, assigned and transferred and by these presents does sell, assign and transfer unto the Government as represented for the purpose hereof by the Director of the Office of Scientific Research and Development,

~~SECRET~~

~~SECRET~~

THIS DOCUMENT HAS BEEN  
TAKEN FROM A FILE OF THE  
ARGONNE NATIONAL  
LABORATORY  
AND WAS TURNED  
OVER TO  
DR. LEON SIZLARD  
1952

Office for Emergency Management, Executive Office of the President and/or his assigns, his entire right, title and interest in and to any and all inventions, discoveries and improvements in the field of Nuclear Physics made by him alone or jointly with others prior to 1 November 1940 and in and to any and all Letters Patent wherever they may be granted thereon as well as reissues and extensions of said Letters Patent, together with any and all of his inventions covered by applications filed by him and subsequently abandoned, the same to be held and enjoyed by the said Government to the full end of the term or terms for which Letters Patent are or may be granted, reissued or extended, as fully and entirely as the same would have been held or enjoyed by him had this assignment not been made, except however the assignment made in this paragraph two does not extend to nor does the present agreement concern in any manner United States Letters Patent No. 2161,985 issued to Szilard 3 June 1939 and entitled "Process of Producing Radioactive Elements," British Patent No. 440023, and Secret British Patent assigned to the British Government in 1936, or the inventions covered by said patents, or any of them.

3. Szilard has sold, assigned and transferred and by these presents does sell, assign and transfer unto the Government as represented for the purpose hereof by the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President and/or his assigns his entire right, title and interest in and to any and all inventions, discoveries and improvements made by him alone or jointly with others while employed by the Trustees of Columbia University in the City

~~SECRET~~

5

of New York and/or The University of Chicago, on behalf of the Government of the United States. The assignment in this paragraph three is made by Szilard in accordance with and at the request of the Trustees of Columbia University in the City of New York and/or The University of Chicago, which is hereby made by the affixing hereto of the signature of a duly authorized person, acting for and on behalf of each respective University.

4. Szilard agrees to make, execute, and deliver unto the Government or to the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President and/or his assigns any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other form, terms and contents as may be required by the Government or the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President or his assigns in or incident to the filing, prosecution or conduct of any and all applications, before as well as after the issuance of any Letters Patent thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said applications may encounter or in which they may become involved, and Szilard agrees that he will aid and assist the Government of the United States in every way in protecting the inventions as may be requested by the Government or the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President or his assigns, except that any expenses incurred in connection with such assistance shall be paid by the Government under proper arrangements to be made by the Government with Szilard for

5212



THIS DOCUMENT HAS BEEN  
TAKEN FROM A FILE OF THE  
NATIONAL LABORATORY  
AND WAS TURNED OVER TO  
THE NATIONAL ARCHIVE  
ON 12-11-61

that purpose and in case the services of Szilard are required involving loss of time and income by Szilard, Szilard shall be paid by the Government at the prevailing rate for the type of services rendered by proper arrangements to be made by the Government with Szilard for that purpose.

5. Szilard understands and agrees that with respect to any patentable discovery or invention coming under this agreement, the Contracting Officer of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President and/or the Contracting Officer of the United States Engineers, Manhattan District, War Department, or their duly appointed representative, shall have the sole power to determine whether or not a patent application shall be filed covering any and all of said inventions, discoveries and improvements made by Szilard.

6. Szilard further agrees that the Government shall have the irrevocable and exclusive right to prosecute all patent applications, wherever filed, covering inventions made by him and Szilard hereby grants to the Government the full power of substitution and revocation to make alterations and amendments to any and all said patent applications, to receive all Letters Patent and to transact all business in any Patent Office in connection with any applications, and to prosecute, conduct and make adjustments and settlements of any interferences or other acts or proceedings that any and all inventions and/or said applications and patents may encounter or in which they may become involved.

IN TESTIMONY WHEREOF, THIS AGREEMENT HAS BEEN EXECUTED

THIS 31st DAY OF December, 1943.

THIS DOCUMENT HAS BEEN TAKEN FROM A FILE OF THE ARGONNE NATIONAL LABORATORY AND WAS TURNED OVER TO THE NATIONAL ARCHIVES ON 12/22/1981

Witness:

[Signature]

[Signature] (SEAL)  
Leo Szilard

GOVERNMENT OF THE UNITED STATES

By K. D. Nichols  
K. D. NICHOLS, Colonel, C.E.  
Contracting Officer  
United States Engineers  
Manhattan District  
War Department

Assented to and approved by:

Trustees of Columbia University  
in the City of New York

By [Signature]  
Assistant Treasurer

Assented to and approved by:

Board of Trustees of  
The University of Chicago

By [Signature]  
W. B. Harrell, Business Manager

STATE OF ILLINOIS )  
                          ) SS.  
COUNTY OF COOK )

I, Katherine Tracy, a Notary Public in and for the County and State aforesaid, do hereby certify that LEO SZILARD, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and Notarial Seal this third day of December, 1943.

[Signature]  
Notary Public

MY COMMISSION EXPIRES JANUARY 28, 1948

rus

2125

Corrected Draft

b651 ①

11/17/43

*L. Szilard*  
*Number connections*

MEMORANDUM OF AGREEMENT made this \_\_\_\_\_ day of

1943 between Leo Szilard of Chicago, Illinois

(hereinafter referred to as Szilard) and the Government of the United States (hereinafter referred to as the Government) represented for the purpose hereof by the United States Engineers, Manhattan District, War Department.

*Contracting Officer of the*

WHEREAS, Szilard, ~~is a~~ <sup>is</sup> joint inventor, has invented certain new and useful improvements in ~~Methods~~ <sup>Methods</sup> for Testing Materials, for which he is ~~about to file~~ <sup>has filed</sup> an application for U. S. Letters Patent, identified as S-1/501, and believes that he now owns certain rights, privileges, and interests *relative* <sup>to</sup> *the* hereinafter granted, and *the* hereinafter granted,

WHEREAS, Szilard believes that he is the sole or joint inventor of certain inventions, discoveries and improvements in the field of Nuclear Physics made prior to 1 November 1940; and

WHEREAS, Szilard believes that he is now the owner of the entire right, title and interest in and to all inventions, discoveries and improvements made by him in the field of Nuclear Physics prior to 1 November 1940 and

*of the* hereinafter granted, and that he now is the owner of an undivided right, title and interest in and to any and all inventions, discoveries and improvements jointly made by him with others in the field of Nuclear Physics prior to 1 November 1940 *of the* and hereinafter granted; and

WHEREAS, Szilard believes that he is the sole or joint inventor of certain inventions, discoveries and improvements in the field of Nuclear Physics made after 1 November 1940, and alone or jointly has conceived and developed methods, apparatus, devices and compositions

~~SECRET~~

And believe that he now owns the hereinafter granted rights, privileges and interest relative thereto,

in said field after 1 November 1940, all while in the employ of the Trustees of Columbia University in the City of New York and/or The University of Chicago starting 1 November 1940, pursuant to certain employment agreements with said Universities, respectively, and admits <sup>That</sup> he is obligated to do whatever is necessary to take out patents on any and all inventions, discoveries and improvements <sup>in any and all</sup> countries made by him during the periods of said employments as and when requested by either of said Universities <sup>the University of Chicago</sup> ~~in the case may be to said Universities or to other assignees designated by either of them~~ and <sup>to</sup> assign <sup>upon request of the University of Chicago</sup> all rights, title and interest in <sup>(and to)</sup> any and all sole or joint inventions, discoveries and improvements <sup>(thereon), as well as</sup> any and all patents and applications thereof <sup>to the University of Chicago, or to other assignees designated by the University of Chicago;</sup> and

therefor,

WHEREAS, the Government is desirous of acquiring the rights, privileges and interests hereinafter granted <sup>and</sup> ~~with~~ <sup>believed to be</sup> ~~respect to Szilard~~ at the present time <sup>owned by Szilard</sup> in and to said applications to be filed and identified as S-1/501, for Method of Testing Materials and in and to the inventions, discoveries and improvements disclosed therein; and the entire right, title and interest of Szilard in and to any and all sole or joint inventions, discoveries and improvements in the field of Nuclear Physics made prior to 1 November 1940 and now believed to be owned by Szilard; and

<sup>Szilard's</sup> WHEREAS, the Government is desirous of acquiring ~~his~~ <sup>his</sup> entire right, title and interest in and to any and all sole or joint inventions, discoveries and improvements ~~(heretofore or hereafter)~~ made by Szilard while employed by the Trustees of Columbia University in the City of New York and/or the University of Chicago on behalf of the Government;

NOW THEREFORE to all whom it may concern, be it known that for and in consideration of the sum of to Szilard, in hand paid

SECRET

by the Government and for other good and valuable considerations, the receipt of which is hereby acknowledged:

1. Szilard has sold, assigned, and transferred, and by these presents does sell, assign and transfer unto the Government as represented for the purpose hereof, by the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President and/or his assigns, his entire right, title and interest that he now owns as joint inventor in the United States Patent Application, to be filed and identified as S-1/502, for the Method of Testing Materials and in and to the inventions, discoveries, and improvements disclosed in said United States Patent Application to be filed.

2. Szilard has sold, assigned and transferred and by these presents does sell, assign and transfer unto the Government as represented for the purpose hereof by the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President and/or his assigns, his entire right, title and interest in and to any and all inventions, discoveries and improvements in the field of Nuclear Physics made by him alone or jointly with others prior to 1 November 1940 and in and to any and all Letters Patent wherever they may be granted thereon as well as reissues and extensions of said Letters Patent, together with any and all of his inventions covered by applications filed by him and subsequently abandoned, the same to be held and enjoyed by the said Government to the full end of the term or terms for which Letters Patent are or may be granted, reissued or extended, as fully and entirely as the same would have been held or enjoyed by him had this assignment not been made, excepting from this provision United States Letters Patent No. 2161,985

However the assignment made in this paragraph 2 does not extend to

SECRET

issued to Szilard 3 June 1939 and entitled "Process of Producing Radioactive Elements", British Patent No. \_\_\_\_\_, and Secret British Patent assigned to the British Admiralty in 1936, *or the inventions covered by said patents, or any of them.*

3. Szilard has sold, assigned and transferred and by these presents does sell, assign and transfer unto the Government as represented <sup>FOR THE PURPOSE</sup> hereof by the Director of the Office of Scientific Research and Development, Office for Emergency Management, ~~Executive Office of the President~~ and/or his assigns <sup>his entire right, title and interest in and to any and all inventions, discoveries and improvements (heretofore (and hereinafter) made by him alone or jointly with others while employed by the Trustees of Columbia University in the City of New York and/or the University of Chicago, on behalf of the Government of the United States, *The assignment in this paragraph 3 is made by Szilard in accordance with request made by said Universities.*</sup>

*and at the request of the University of Chicago, which is hereby made by the affixing of the signature of a duly authorized person, acting for and on behalf of said University of Chicago.*

4. Szilard agrees to make, execute, and deliver unto the Government or to the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President and/or his assigns any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other form, terms, and contents as may be required by the Government or the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President or his assigns in or incident to the filing, prosecution or conduct of any and all applications, before as well as after the issuance of any Letters Patent thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said applications may encounter

SECRET

5

or in which they may become involved, and Szilard agrees that he will aid and assist the Government of the United States in every way in protecting the inventions which may be requested by the Government or the Director of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President or his assigns, except that any expenses <sup>incurred in connection with</sup> arising through extending such assistance <sup>shall</sup> will be paid <sup>by</sup> for the Government under proper arrangement <sup>to be made by</sup> with the Government, <sup>with Szilard, for that purpose</sup> and in case the services of Szilard are required involving loss of time and income by Szilard, Szilard <sup>shall</sup> will be paid by the Government at the prevailing rate for the type of services rendered by proper arrangement <sup>to be made by</sup> with the Government. <sup>with Szilard for that purpose.</sup>

5. Szilard understands and agrees that with respect to any patentable discovery or invention coming under this agreement, the Contracting Officer of the Office of Scientific Research and Development, Office for Emergency Management, Executive Office of the President and/or the Contracting Officer of the United States Engineers, Manhattan District, War Department, or their duly appointed representative, shall have the sole power to determine whether or not a patent application shall be filed covering any and all of said inventions, discoveries and improvements made by Szilard.

6. Szilard further agrees that the Government shall have the irrevocable and exclusive right to prosecute all patent applications, wherever filed, covering inventions made by him and Szilard hereby grants to the Government the full power of substitution and revocation, to make alterations and amendments to any and all said patent applications, to receive all Letters Patent and to transact all business in

SECRET

~~SECRET~~

any Patent Office in connection with any applications,  
and to prosecute, conduct and make adjustments and  
settlements of any interferences or other acts or proceed-  
ings that any and all said inventions and/or applications  
and patents may encounter or in which they may become involved.

IN TESTIMONY WHEREOF, THIS AGREEMENT HAS BEEN  
EXECUTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 1943.

Witness:

*Handwritten signature*

\_\_\_\_\_  
Leo Szilard (SEAL)

\_\_\_\_\_

GOVERNMENT OF THE UNITED STATES

By \_\_\_\_\_  
Contracting Officer  
United States Engineers  
Manhattan District  
War Department

5

~~SECRET~~



~~SECRET~~

7

STATE OF ILLINOIS )  
                          ) SS.  
COUNTY OF COOK     )

THIS DOCUMENT HAS BEEN  
TAKEN FROM A FILE OF THE  
ARGONNE NATIONAL LABORATORY  
AND WAS TURNED OVER TO  
DR. [Name] ON [Date]

I, \_\_\_\_\_  
Public in and for the County and State aforesaid, do  
hereby certify that LEO SZILARD, personally known to me  
to be the same person whose name is subscribed to the  
foregoing instrument, appeared before me this day in  
person and acknowledged that he signed, sealed and de-  
livered the said instrument as his free and voluntary  
act and deed for the uses and purposes therein set forth.

Given under my hand and Notarial Seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 1943.

\_\_\_\_\_  
Notary Public

Assented to and  
approved by:

Trustees of Columbia University  
in the City of New York

By \_\_\_\_\_

Assented to and  
approved by:

Board of Trustees of the  
University of Chicago

By \_\_\_\_\_

\_\_\_\_\_

~~SECRET~~