

**SECRET**

RECORD OF INVENTION  
OFFICE FOR EMERGENCY MANAGEMENT  
OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT

(\* SEE INSTRUCTIONS ON BACK)

CASE NO. S-5292X  
Priority 1

(a) Inventor:

(1) Name(s): (1) John von Neumann

(2) Klaus E. J. Fuchs

(2) Title or position: Physicists

(3) Employed by: (1) Princeton University (2) British Mission

(4) Permanent address: 1 Princeton University, Princeton, N. J.

2 Birmingham University, Birmingham, England

(b) Title of Invention: (\*1) Improvements in method and means for utilizing nuclear energy.

(c) Description of Invention: (\*2) See attached.

(d) Dates and places of Invention

on or about

(1) Conception by inventor: (\*3) 18 Apr 46 at Los Alamos, N. M.

(2) First sketch or drawing: 18 April 1946 at Los Alamos, N. M.

(3) First written description: 18 April 1946 at Los Alamos, N. M.

(4) Disclosure to others: (\*4) 18 April 1946 at Los Alamos, N. M.

(a) Edward Teller 18 April 1946, at Los Alamos, N. M.

(b) Robert Serber 18 April 1946, at Los Alamos, N. M.

(5) Completion of model or full sized device: \_\_\_\_\_ at \_\_\_\_\_

(6) First test or operation of invention: \_\_\_\_\_ at \_\_\_\_\_

(e) Results of tests, and extent of use of invention: (\*5)

(f) Names of persons having knowledge of facts stated under (d) and (e):

(g) Prior Reports: (\*6)

(h) Other closely related patents and patent applications: (\*7)

(i) Rights of U. S. Government:

(j) Licenses or Assignment:

(k) Contracts involved:

Contractor and address

Contract No. and date

Subject matter

Address of Plant

Type of contract: Restricted, Confidential or Secret

(l) Signature of witness and date: Signature of inventor(s) and date:

Louis F. Jacot  
28 May, 1946

John von Neumann, 28 May 1946

Herbert I. Maller 5 June 1946

Klaus Fuchs 5th June 1946

Forwarded by (\*8) Ralph Carlisle Smith on 6 June 1946  
Major

NOT RELEASABLE TO THE PUBLIC WITHOUT FURTHER REVIEW BY DEPARTMENT OF ENERGY, OFFICE OF CLASSIFICATION. AUTHORITY: DOE-OTC BY R. E. O'BRIEN, DATE 11/10/88

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*2 - British Subject*

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5/5292  
6/19/46

DISCLOSURE

OSRD CASE NO: S-5292-X  
PRIORITY: 1  
INVENTORS: John von Neumann and Klaus E. J. Fuchs  
SUBJECT: Method and Apparatus for Releasing Nuclear Energy  
OBJECT: To provide an improved method and means for initiating a self-sustaining thermo-nuclear reaction which minimizes the amounts of materials employed.

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DOE  
E-O 12386  
6.2 (a)

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are connected by conduits 13.

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0012356  
6.2 (x1)

John von Neumann

Klaus Fuchs

Disclosed to and understood by me  
this 28 day of May 1946.

Louis F. Jacot

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PRIOR ART: See Cases S-680X and S-5277X

PROBABLE VALUE: One proposed design for "Super"

RECOMMENDATIONS AND COMMENTS: Filing is recommended if program for covering "Super" is carried through.

PROPOSED CLAIM: The combination with a device for initiating a thermo-nuclear reaction which employs a quantity of fissile material adaptable to sustain a neutron induced divergent chain reaction, a massive quantity of material in which a thermo-nuclear reaction can be maintained

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DOE  
E.O. 12356  
6.2(a)

Author: Herbert I. Miller  
Date: 16 May 1946

Approved: Ralph Carlisle Smith

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E.O. 12356  
62(a)

Classification ~~SECRET~~ Case No. S-5292X  
Invented By John von Neumann, Klaus E.J. Fuchs  
Checked By ~~SECRET~~ PAUL C. O'LEARY Date 3 May 46  
Checked By Herbert I. Miller Date 16 May 1946  
DISCLOSED TO AND UNDERSTOOD BY ME ON