(12) **United States Patent**
Ogden

(10) **Patent No.:** **X2037**
(45) **Date of Patent:** **Dec. 31, 1813**

(54) **STEAM ENGINE,APPLICATION OF STEAM**

(76) Inventor: **Francis B. Ogden**

Francis B. Ogden
Letters Patent

United States of America }
State of New York. } ss.

(Seal) By this Public Instrument, Be it known to all whom the same doth or may concern, That I, William Van Hook, a Public Notary in and for the State of New York, by Letters Patent under the Great Seal of the said State, duly commissioned and sworn, and as such by the said Letters Patent invested with full Power and Authority to attest Deeds, Wills, Testaments, Codicils, Agreements, and other instruments for writing, and to administer any Oath or Oaths to any Person or Persons, Do Hereby Certify, That on the day of the date hereof personally came and appeared before me the said notary Francis B. Ogden known to me to be the same person named and described in the Power of Attorney hereunto annexed and in my presence duly executed and acknowledge the same to be his act and deed for the uses and purposes therein mentioned. In testimony whereof, I the said Notary have subscribed these presents, and I have hereunto affixed my Seal of Office, the Twenty fifth day of July, in the year One thousand eight hundred and fifteen and of the Independence the Forty ninth

Wm Van Hook Not Pub.

Whereas Francis B. Ogden of the State of New Jersey in the United States of America, hath invented or discovered a new and useful improvement in the Steam Engine and hath made application for a Patent therefor from the Patent Office of the United States in the words following to wit:—

The United States of America

To all to whom these Letters patent shall come.

Whereas Frances B. Ogden a citizen of the United States hath alleged that he has invented a new and useful improvement in Steam Engines and in applying Steam, which improvement he states has not been known or used before his application, which made oath that he does verily believe that he is the true inventor or discoverer of the said improvement hath paid into the Treasury of the United States the sum of thirty dollars and delivered a receipt for the same and prescribed & published to the Secretary of State signifying a desire of obtaining an exclusive property in the said improvement and praying that a patent may be granted for that purpose.

These are therefore to grant according to law to the said Frances B. Ogden his heirs administrators or assigns, for the term of fourteen years from the thirty first day of December One thousand eight hundred & thirteen the full and exclusive right and liberty of making, constructing using, and vending to others to be used the said improvement, a description whereof is given in the words of the said Frances B. Ogden himself in the schedule hereto annexed, and is made part of these presents.

In testimony whereof I have caused these Letters to be made Patent and the Seal of the United States to be thereunto affixed. Given under my hand at the City of Washington this thirty first day of December in the year of our Lord One thousand eight hundred and thirteen and of the Independence of the United States of America the thirty eighth.

(Signed) James Madison

By the President

City of Washington to wit;

I do hereby certify that the

James Monroe

Secretary of State

foregoing Letters patent were delivered to me on the thirty first day of December in the year of our Lord One thousand eight hundred and thirteen to be examined that I have examined the same and find them conformable to law, and I do hereby return them to the Secretary of State within fifteen days of the date aforesaid, to wit on this thirty first day of December in the year aforesaid

(Signed) Tim.r Pickering Atty General of the United States

His Excellency Caleb Strong Governor of the Commonwealth of Massachusetts

To all to whom these Letters Patent shall come

Be it known that I Oliver Evans of the City of Philadelphia in the State of Pennsylvania have invented certain new and useful improvements in the construction of Steam Engines which improvements are described in the following specification and illustrated by the accompanying drawings making part of the same

The nature of my improvements consists in the application of the power of steam or elastic vapour to the purpose of moving machinery by the alternate production and condensation of steam or vapour in separate vessels or cylinders, and in forming the communications between the cylinders and the boiler and the condenser by proper valves opening and shutting at the proper times in the manner hereinafter described

The power of steam or elastic vapour to move machinery is derived from the alternate production and condensation of steam or vapour in separate vessels or cylinders, and the communications between the cylinders and the boiler and the condenser are opened and shut at proper times by valves, variously constructed and placed for that purpose

The nature of my improvements in the construction of steam engines consists in the application of the power of steam or elastic vapour to the purpose of moving machinery by the alternate production and condensation of steam or vapour in separate vessels or cylinders, and in forming the communications between the cylinders and the boiler and the condenser by proper valves opening and shutting at the proper times in the manner hereinafter described

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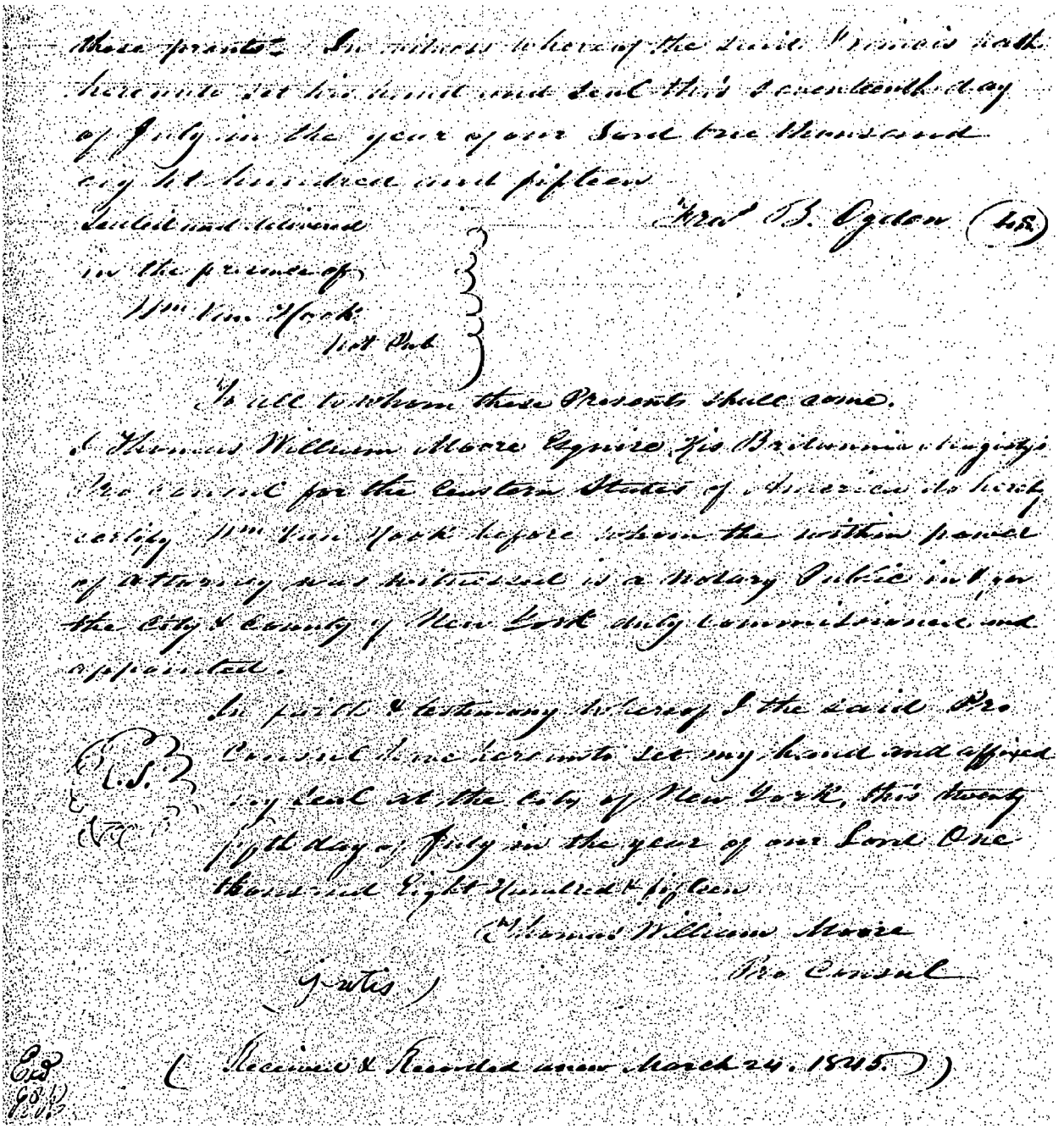
ey Linder — I claim not confine myself to any particular mode in the application of my power, either the working beam. Besides, as any other method now in practice may be adapted with equal facility.

I further Claim as my invention the application of the pinions of the two pistons in such a manner that they shall not simultaneously be the same apis at right angles with each other from whence the power that when one is at its minimum the other being at its maximum will carry it past the point, and that they will mutually tend to equalize the motion thereby doing away the necessity of balance wheels

Witnesses
Robt. Reynolds
C. W. Hunter

(Signed) Thos B. Ogden

Now know Ye that the said Thomas B. Ogden hath made named authorized constituted and appointed, and by these presents doth make name authorize constitute and appoint Peter V Ogden of the State of New Jersey in the United States of America, his true and lawful attorney for him the said Thomas, and in his name to take out a Patent within the Kingdoms of England Scotland and Ireland or either of them, for the said improvement and to vend and sell any rights he may from thereof, and generally to do perform and execute all and every such lawful and reasonable act deed matter and thing whatsoever with respect to the matter aforesaid as fully and effectually to all intents and purposes as the said Thomas might or could do if personally present. And the said Thomas B. Ogden doth hereby ratify and promise and agree to ratify allow and confirm all and what his said true and lawful attorney shall lawfully do or cause to be done in the premises by virtue of



these presents. In witness whereof the said Thomas hath hereunto set his hand and seal this Fourteenth day of July in the year of our Lord One thousand eight hundred and fifteen

Thos W. Gibbon (LS)

Sealed and delivered
in the presence of
Wm Wm York
Nat Park

To all to whom these Presents shall come.

I Thomas William Moore Esquire His Britannic Majesty's Vice Consul for the United States of America do hereby certify Wm Wm York before whom the within power of Attorney was subscribed is a Notary Public in & for the City & County of New York duly commissioned and appointed.

In faith & testimony whereof I the said Vice Consul have hereunto set my hand and affixed my seal at the City of New York, this twenty fifth day of July in the year of our Lord One thousand Eight Hundred & fifteen

(L.S.) (V.C.)

Thomas William Moore
His Consul

Gratis

(Recorded & Recorded June March 24. 1845.)

2–328 a.

DRAFTSMAN'S DIVISION.

All communications should be addressed to "The Commissioner of Patents, Washington, D. C."

DEPARTMENT OF THE INTERIOR,

United States Patent Office.

Washington, D. C., ..., *189*..

SIR:

The printed copies *of Patent No.* T B Oden Dec 31 1813

are *exhausted.*

As soon as reprinted a copy will be mailed you to complete your order.

By direction of the Commissioner:

Very respectfully,

Chief Clerk.

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