

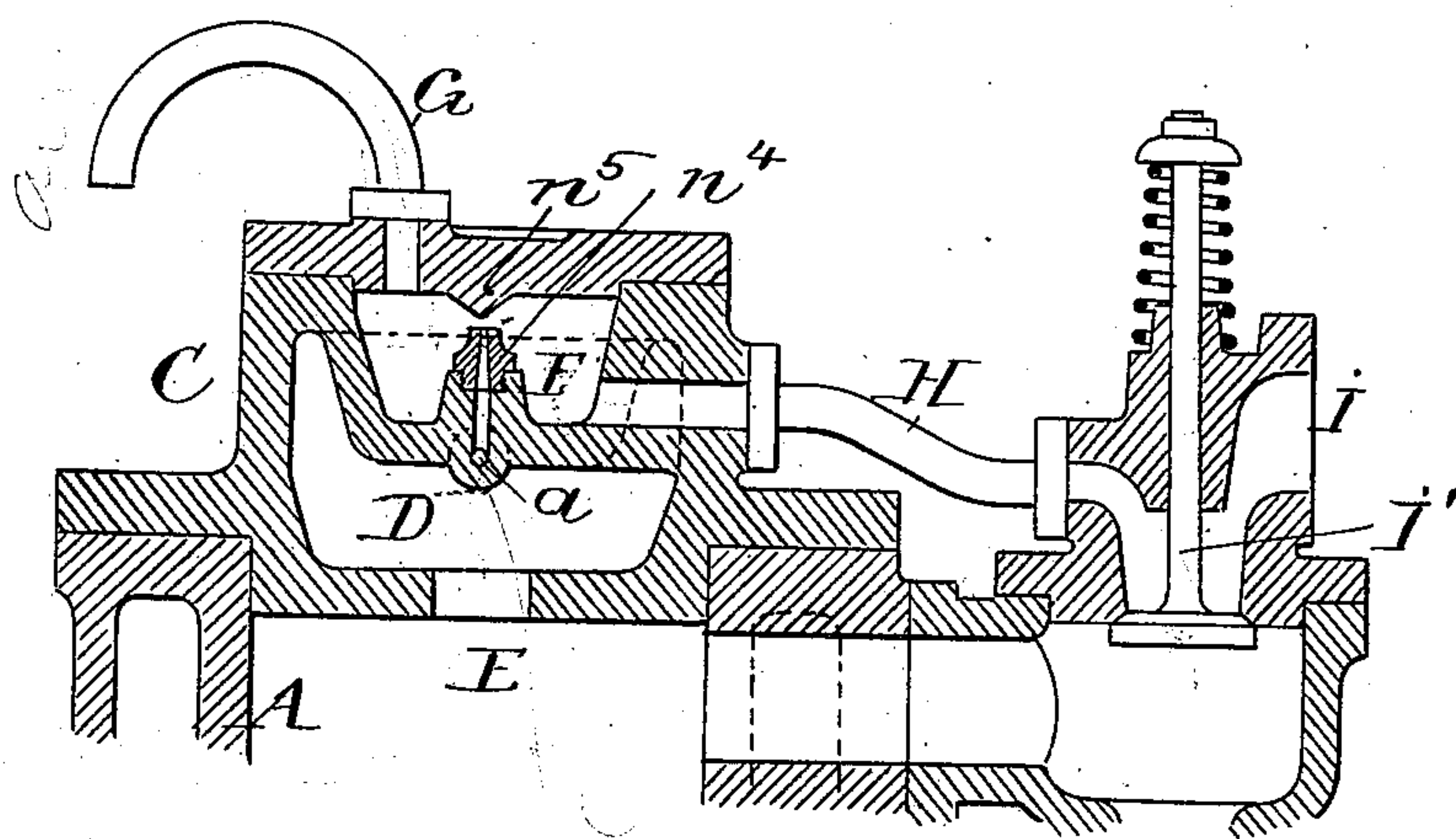
No. 668,773.

Patented Feb. 26, 1901.

R. P. HANSEN.  
VAPORIZER FOR EXPLOSIVE ENGINES.

(Application filed May 23, 1900.)

(No Model.)



WITNESSES:

*Ella L. Giles*

*Otto Munk*

INVENTOR

*Rasmus Peder Hansen*

BY

*Richard R.*

ATTORNEYS

# UNITED STATES PATENT OFFICE.

RASMUS PEDER HANSEN, OF ERINDSLEV SOGN RÖDBY, DENMARK.

## VAPORIZER FOR EXPLOSIVE-ENGINES.

SPECIFICATION forming part of Letters Patent No. 668,773, dated February 26, 1901.

Application filed May 23, 1900. Serial No. 17,719. (No model.)

*To all whom it may concern:*

Be it known that I, RASMUS PEDER HANSEN, a subject of the King of Denmark, residing at Erindslev Sogn Rödby, Denmark, have made  
5 certain new and useful Improvements in Vaporizers, of which the following is a specification.

My invention relates to a vaporizer for petroleum-motors which is arranged in the cover  
10 of the motor-cylinder.

The invention is illustrated in the accompanying drawing, which shows a vertical section through the upper part of a motor-cylinder provided with my improved vaporizer.

15 A is the cylinder, which is closed above by a cylinder head or cover C. In the latter is a space or chamber divided by a partition into two parts, the lower part D of which communicates through the open port E with the combustion-chamber of the cylinder. The upper  
20 part F serves as a petroleum-vaporizer.

The petroleum is conducted from the petroleum-pump through a pipe into an oil-feed channel *a* in the partition and passes there-  
25 after into the chamber F through a fine hole in the nozzle *n*<sup>4</sup>. Closely above the cover of the vaporizer is arranged a spreading device *n*<sup>5</sup>, which may be conical in shape and is intended to serve to diffuse the petroleum-jet  
30 issuing from the nozzle over the whole surface of the vaporizer.

G is an air-feed pipe for the vaporizer.

H is the pipe through which the mixture of air and petroleum vapor is fed to the induction-valve I' of the cylinder for the purpose  
35 of being there mixed with the air introduced through the conduit I.

During the operation of the engine one part of the products of combustion will penetrate through the hole E into the chamber D and  
40 heat it, so that the petroleum can vaporize in the vaporizer F.

What I claim, and desire to secure by Letters Patent, is—

A vaporizer for petroleum-motors, consisting of the chamber formed in the head or cover  
45 thereof, a partition dividing the chamber into two parts of which the lower communicates by an open port with the combustion-chamber, and the upper communicates with the air and  
50 with the inlet-valve, a petroleum-feed channel in the partition, a spreading projection on the under side of the cap of the upper chamber and a delivery-aperture for the petroleum  
55 below said projection.

In witness whereof I have hereunto set my hand in presence of two witnesses.

RASMUS PEDER HANSEN.

Witnesses:

JULES BLOW,  
A. HELD TRIGENEISOR.