



A.D. 1780 N° 1263.

Apply Steam Engines to Obtain Rotary Motion.

PICKARD'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JAMES PICKARD, of Birmingham, in the County of Warwick, Button Maker, send 5 greeting.

WHEREAS His most Excellent Majesty King George the Third, by His Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Twenty-third day of August, in the twentieth year of His said Majesty's reign, did give and grant unto me, the said James Pickard, 10 my executors, adōors, and assigns, his special licence, full power, sole privilege and authority, that I, the said James Pickard, should and lawfully might, during the term of years therein expressed, use, exercise, and vend, throughout that part of His Majesty's Kingdom of Great Britain called England, Dominion of Wales, and Town of Berwick-upon-Tweed, and also 15 in all His Majesties Colonies and Plantations abroad, my "**NEW-INVENTED METHOD OF APPLYING STEAM ENGINES (COMMONLY CALLED FIRE ENGINES) TO THE TURNING OF WHEELS, WHEREBY A ROTATIVE MOTION (OR MOTION ROUND AN AXIS IS PERFORMED), AND THE POWER OF THE ENGINE IS MORE IMMEDIATELY AND FULLY APPLIED, WHERE MOTION ROUND AN AXIS IS REQUIRED, THAN BY THE INTERVENTION OF WATER** 20 **WHEEL;**" in which said recited Letters Patent is contained a proviso obliging me, the said James Pickard, by writing under my hand and seal, to cause a particular description of the nature of my said Invention, and how the same is to be performed, to be inrolled in His Majesty's High Court of Chancery within four calendar months after the date of the said recited Letters Patent, as in

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and by the said Letters Patent, and the Statute in that behalf made, reference being thereunto respectively had, may more at large appear.

NOW KNOW YE, that in compliance with the said proviso, and in pursuance of the said Statute, I, the said James Pickard, do hereby declare that the following is a Drawing and particular description of the nature of my said 5 Invention, and of the manner in which the same is to be performed (that is to say):—

A, B, represents a lever commonly called a crank, which is fixt to the shaft or arbor of the great wheel C, D, the pin (*a*) of which crank is inserted into the end of a spear or carrier, the other end of which spear is (by a moving 10 joint) connected to or with the regulating or great working beam (and in some cases to the piston) of the fire-engine cylinder, consequently each stroke of the piston makes the crank A, B, and great wheel C, D, revolve once about their common axis or center, and when a regular uniform motion is required a smaller wheel F, G, is applied, which, working in the large wheel C, D, and 15 having just half the number of coggs or teeth, consequently makes just twice the number of revolutions; about its axis or center a weight H is also applied to such a part of the wheel F, G, (or by a leaver to its shaft or arbor, that the said weight H will always descend when the crank and the spear are parallel (or nearly so), and the said weight will ascend when the are at or 20 nearly at right angles with each other, (i. e.) the weight ascends by the acting of two opposite quadrants, and descends in the other two opposite quadrants of each rotation of the large wheel C, D.

And I, the said James Pickard, do hereby also further declare that nothing herein contained is intended to extend to any fire engine where a rotative 25 motion is or may be effected in any other manner than having its power applied to a crank or pin revolving similar to that at *a*.

In witness whereof, I have hereunto set my hand and seal, this Fifth day of December, in the year of our Lord One thousand seven hundred and eighty.

JAMES PICKARD. (L.S.)

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Sealed and delivered (being first duly stampd) in the presence of

W^m HODGKINS.
ROB^t GROSVENOR.

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AND BE IT REMEMBERED, that on the said Fifth day of December, in the year above mentioned, the said James Pickard came before our said Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and every thing therein contained and specified, in form above written. And
 5 also the Specification aforesaid was stampd according to the form of the Statute made in the sixth year of the reign of their late Majesty's King William and Queen Mary of England, and so forth.

Inrolled the Ninth day of December, in the year above mentioned.

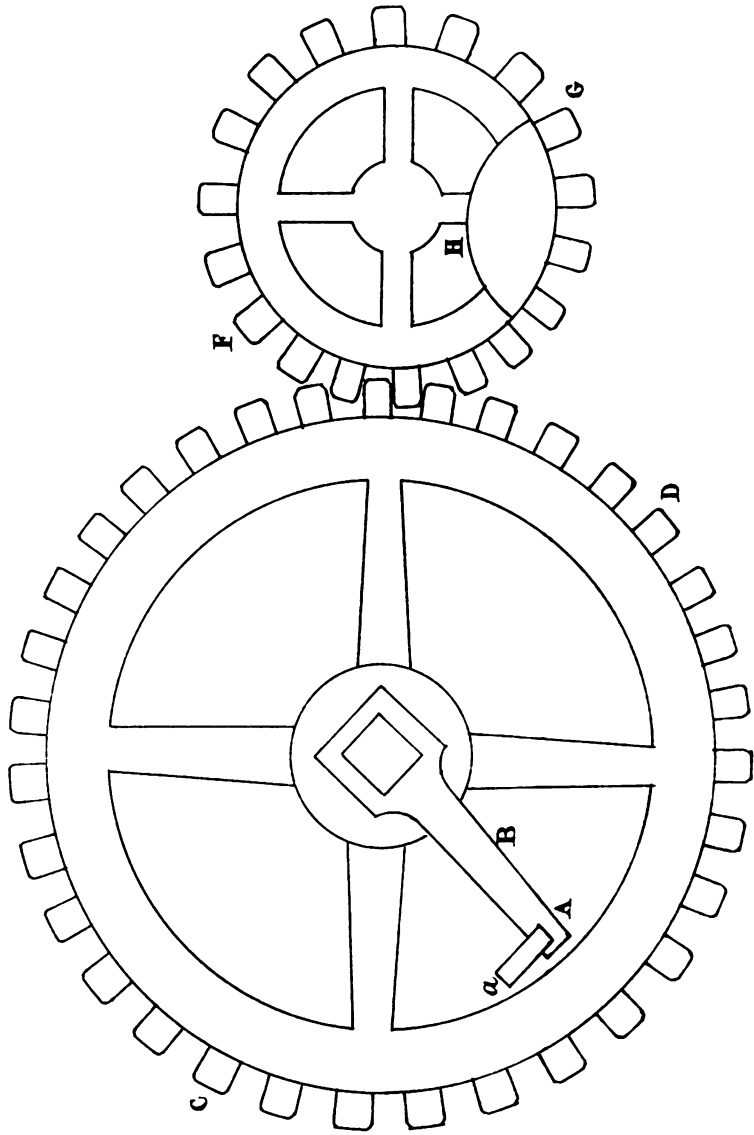
Geo. HOLINGTON BAKER,
 A Master Extraordinary in Chancery.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
 Printers to the Queen's most Excellent Majesty. 1855.

(1 SHEET.)

A. D. 1780. Aug. 23. N^o. 1263.
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The enrolled drawing is colored.

Drawn on Stone by Malby & Sons.

LONDON: Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1833.

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