Specification of John West: forges.

Contributors

West, John.

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A.D. 1834 N° 6730.

SPECIFICATION

OF

JOHN WEST.

FORGES.

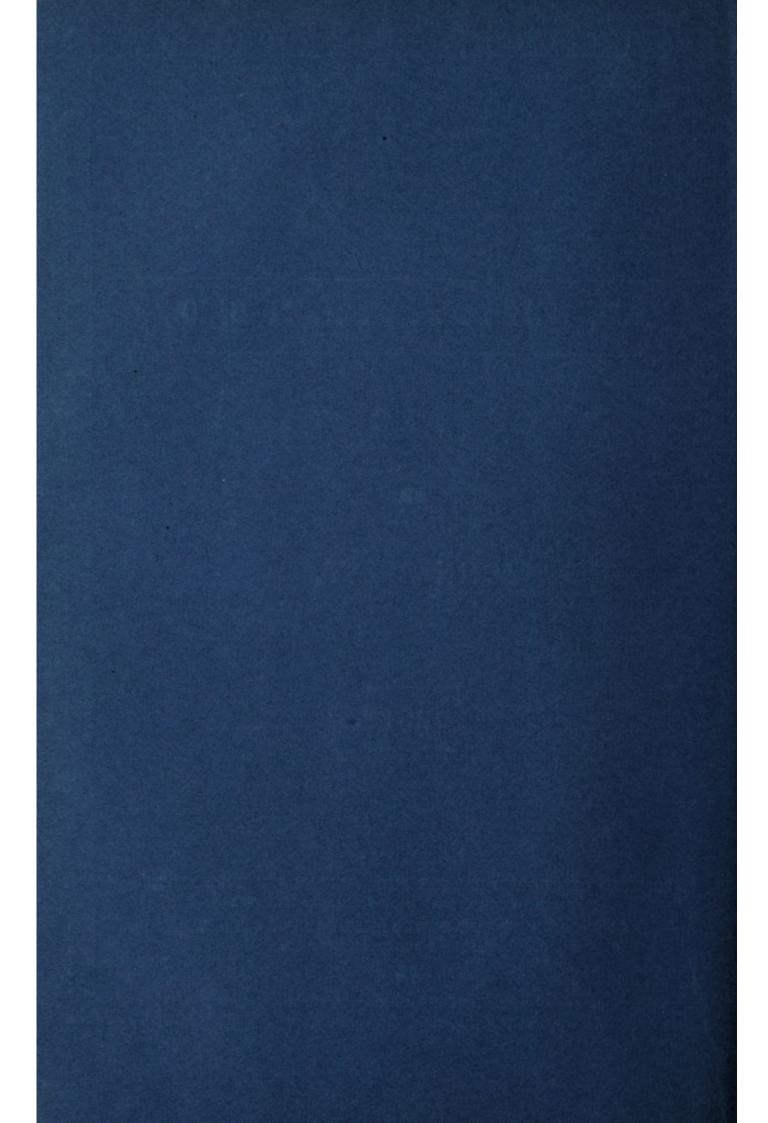
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WEST'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOHN WEST, of Crayford, in the County of Kent, Blacksmith, send greeting.

WHEREAS His present most Excellent Majesty King William the Fourth, by His Letters Patent under the Great Seal of Great Britain, bearing date at 5 Westminster, the Ninth day of December, in the fifth year of His reign, did, for Himself, His heirs and successors, give and grant unto me, the said John West, His especial licence, full power, sole privilege and authority, that I, the said John West, my exors, admors, and assigns, or such others as I, the said John West, my exors, admors, or assigns, should at any time 10 agree with, and no others, from time to time and at all times during the term of years therein expressed, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick-upon-Tweed, my Invention of "An Improvement on Forges;" in which said Letters Patent is contained a proviso that I, the said John West, shall cause a

15 particular description of the nature of my said Invention, and in what manner the same is to be performed, to be inrolled in His said Majesty's High Court of Chancery within six calendar months next and immediately after the date of the said in part recited Letters Patent, as in and by the same, reference being thereunto had, will more fully and at large appear.

John West, do hereby declare the nature of my Invention, and the manner in which the same is to be performed, are fully described and ascertained in and

West's Improvements on Forges.

by the following description thereof, reference being had to the Drawing hereunto annexed, and to the figures and letters marked thereon (that is to say) :--

My Invention consists in causing water to circulate within the back of the forge in order to carry off heat therefrom, whereby the back of the forge will 5 be preserved from the prejudicial effects of the heat, as will be hereafter fully described.

DESCRIPTION OF THE DRAWING.

Figure 1 represents a front view of a forge back, which is made hollow in order to admit of a flow of water. Figure 2 is a back view of Figure 1, by 10 which the position of the circulating pipes is shown. Figure 3 is a side view of a forge back, and Figure 4 is a side section, by which the action of the water will become more evident, the arrows in this latter Figure clearly indicating the flow of the water. In each of these Figures the same letters indicate similar parts. It will be seen that the back of the forge is made up 15 of the parts a and b, the part a being the front or part against which the fire or hot coal lies, and is consequently that part which is liable in the ordinary back to be quickly destroyed; but when constructed in such a manner as to admit of a constant flow of water against the back surface, this part a will be less predjudicially acted on by the hot coal, owing to the heat being constantly conveyed 20 away by the circulation of the water. The part b constitutes the back part of the forge back; these parts are put together by screws c, as shown in the various Figures, there being packing or luting at the joints in order to keep the same water-tight. d is the induction pipe, and e is the eduction pipe, which respectively lead from and to a tub or vessel containing water, which 25 is placed in any convenient situation in order that water may constantly flow to and from the hollow forge back a, b, as is clearly shown in Figure 5. I would here remark that the hollow forge back is to be set in like manner to ordinary backs of forges, and in other respects the forge is constructed as heretofore.

Having thus described the manner of applying my Invention, I will shortly state the way in which it acts. The heat of the fire against the part a of the back of the forge will quickly heat the water contained in the hollow forge back, the consequence of which will be that the hotter particles will rise upward and flow off by the pipe e, whilst a quantity of colder water will 35 constantly flow by the pipe d to make up for that which flows off by the pipe e, and thus will a continued circulation or flow of water take place in the hollow back of the forge, which, continually carrying off heat therefrom, will

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West's Improvements on Forges.

prevent the forge back becoming heated to that extent to which it has heretofore been liable. In conclusion I would wish it to be understood that I lay
no claim to any parts of the forge which are well known and in use. And I
do hereby declare that what I claim as my Invention of an improvement on
5 forges consists in producing a circulation of water within the forge back, as
above described.

In witness whereof, I, the said John West, have hereunto set my hand and seal, this Second day of June, in the year of our Lord One thousand eight hundred and thirty-five.

JOHN (L.S.) WEST.

AND BE IT REMEMBERED, that on the Second day of June, in the year of our Lord 1835, the aforesaid John West 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 15 written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose.

10

Inrolled the Ninth day of June, in the year of our Lord One thousand eight hundred and thirty-five.

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fore been liable, all conclusion I would wish it to be anderstood that he lay her lay that her been liable, all conclusion I would wish it to be anderstood that I lay her been liable and in one heat I delign as a children when improvement on the forget being as a children when the forget back, as a filter what I delign as a children when the forget back, as a boundaries in production at a conclusion of water within the forget back, as a boundaries in production.

In witness whereof, I, the said John West, have hereunts set my hand and said seal, this Second day of Jane, in the year of our Lord One thousand cight handand and thirty-fired.

JOHN (ES) WEST.

Involled the Ninch day of June, in the year of our Lord One thousand

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