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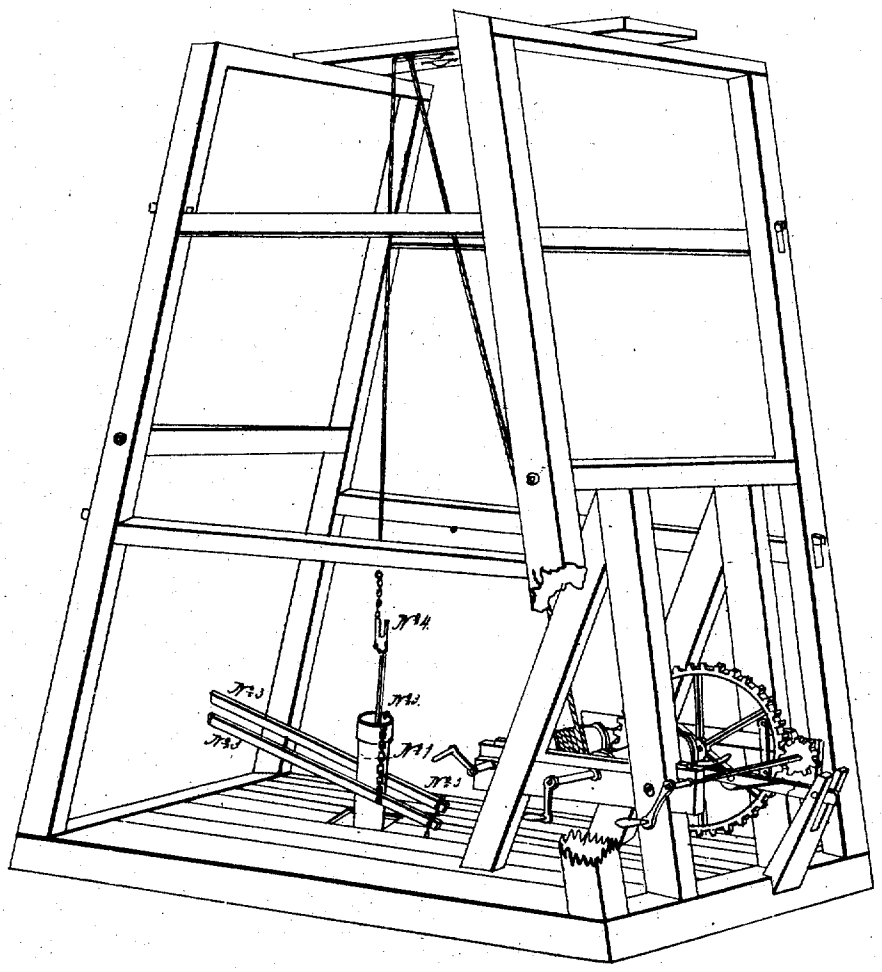
Sheet 1, 2 Sheets.

L. Disbrow.

App's. for Boring in Earth.

No.

Patented Nov. 1, 1830.



Sheet 2, 2 Sheets.

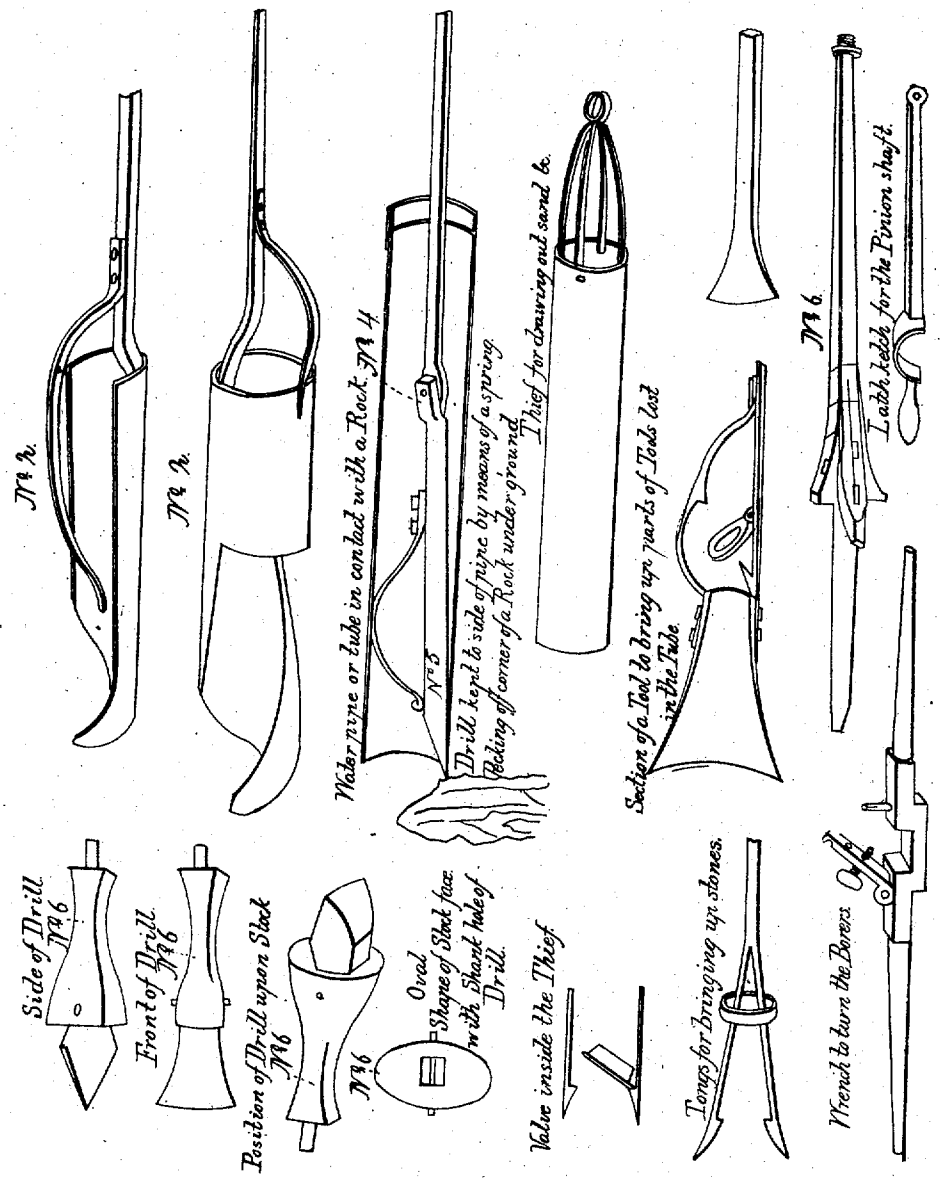
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L. Disbrow.

Appⁿ for Boring in Earth.

Nº

Patented Nov. 1, 1830.



Nov 1 1830 287

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Levi Wilson City of New York

Letters Patent Nov. 1. 1830.

The schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Levi Wilson himself of his Improvement in the apparatus for boring Earth for Water.

To all to whom these presents shall come I Levi Wilson of the City of New York and a citizen of the United States send Greeting.

Be it known that I Levi Wilson the inventor of a machine for boring the Earth for water have invented constructed made and applied the new and useful apparatus which is intended principally for boring into the earth The Specification of the pipes and tools so used is as follows

1st The pipes for sinking in the earth are cast iron of an equal bore throughout but of a diminished thickness taken from the middle near the end till it is small enough to fit into the socket form in the next length of pipe; the socket is formed by a band of wrought iron placed on the end of the pipe, but which when cold contracts and so remains permanent: the next length of pipe is formed in the same manner and so may be continued to any required length or depth. the joints are then secured joints by driving wedges. and so united either to water or steam.

2d The pod or cylinder bit for boring the earth passes through the pipes. It is made of iron pointed with steel. there is a spring in the outside when most disengaged state is larger than the inside of the pipe at the end that when it gets below the pipe it may cause a hole to be bored larger than the pipe to be received, and which is effected by the distention caused by the spring

3d The chain and levers for forcing down the pipe. The levers are two pieces of iron made fast to the pipe in two by pieces of chain or other convenient means: the chains have hooks at their end. the hooks fastens on the socket; the other is passed with the chain round the lever and hooks on such part of the chain as the purchase may

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square at pleasure No 4. Rods Connected by Crutch joints and Screws the rods are square lengths of iron there is a square mortice formed at each end of the length into which one admits the other the rods are held by Screws which pass each other transversely by this means any length of rod may be securely connected, gaining the effect both of flexibility and strength

No 5 The Spring Chisel is formed by a spring which confines the operation of the chisel or punch to the edge of the pipe as in the drawing its use is for breaking off pieces of stone which in part obstruct the passage of the pipe.

No 6. The rock boring tools are First a set of chisels or punches described in the drawing. Second a reaming bit. It is formed of four dies of steel well bolted on a square rod which extends below as a guide. Its use is to enlarge a hole already made to any proposed size:- The whole of the above tools and operations are used with the machine already patented by said Levi Disbrow dated twenty fourth of march one thousand eight Hundred and twenty five, as will appear on reference to the drawing annexed

In testimony that the above is a true specification of my said Invention I have hereto set my hand and seal this thirtieth day of September in the Year of our Lord one thousand eight Hundred and thirty

Levi Disbrow

Test Wilmsted
Alex Walsh
Wm Mulock

(705 words)