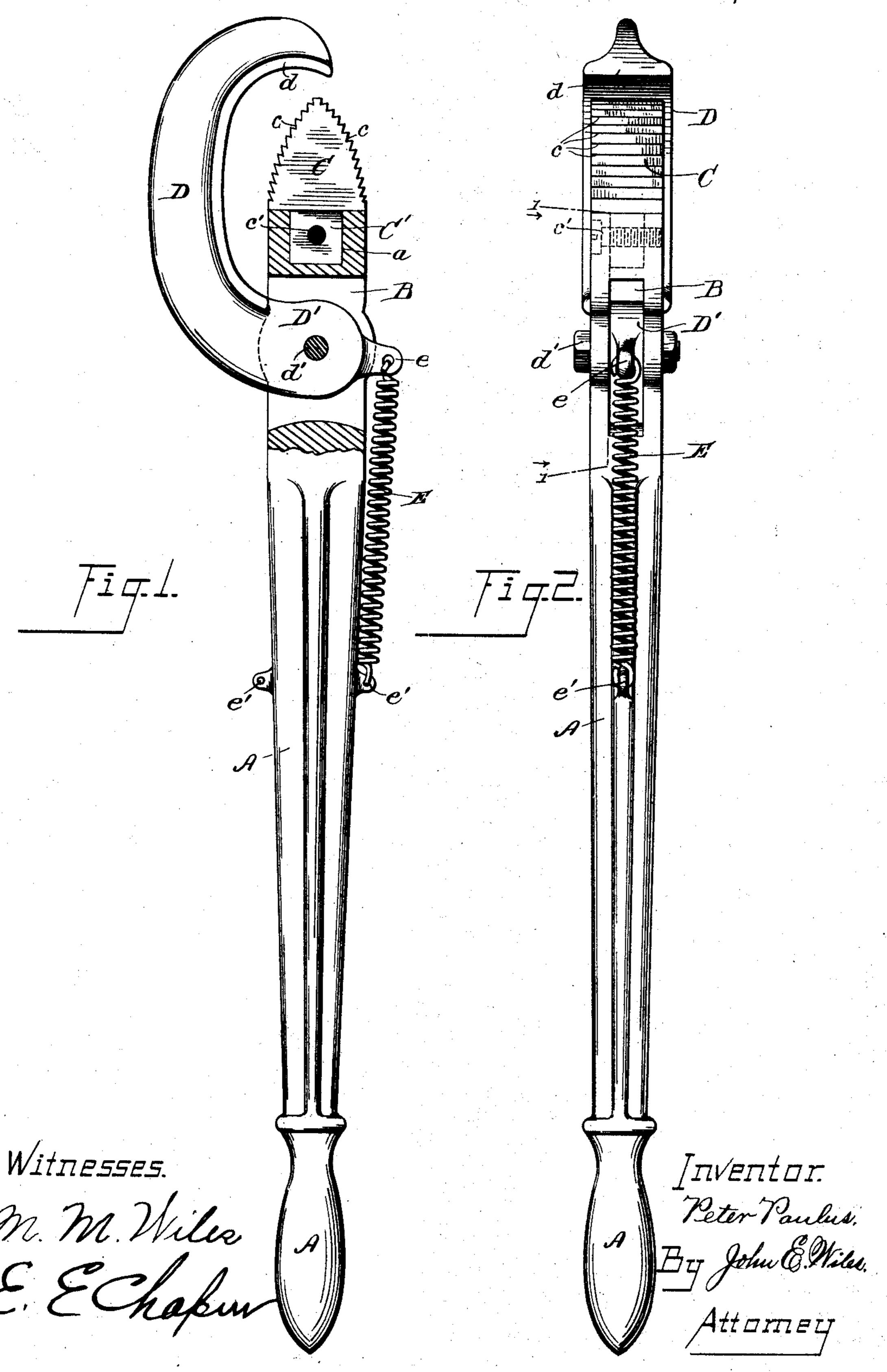
P. PAULUS.
PIPE TONGS.

No. 506,372.

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PIPE-TONGS.

SPECIFICATION forming part of Letters Patent No. 506,372, dated October 10, 1893.

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To all whom it may concern:

Be it known that I, Peter Paulus, a citizen of the United States, residing at Milwaukee, county of Milwaukee, State of Wiscon-5 sin, have invented a certain new and useful Improvement in Pipe-Tongs; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to 10 make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Myinvention relates to new and useful improvements in the construction of pipe tongs, 15 and consists in the matters hereinafter described and more particularly pointed out in

the appended claims.

In the accompanying drawings, illustrating my invention Figure 1 is a view of my im-20 proved device partly in side elevation, and partly in section on line 1—1 of Fig. 2. Fig. 2 is a front elevation of the same.

ignates the handle of my improved tool, which 25 is provided adjacent to one end with a transverse slot B for the reception of a movable jaw, as will be presently described. In the end of the handle A adjacent to said slot, is provided a suitable socket a for the reception 30 of the shank of a toothed jaw C. The toothed jaw C is preferably constructed in the manner shown in the drawings with two curved faces provided with suitable serrations or teeth cc and is provided at its base with a 35 shank C' adapted for engagement with the socket a in the end of the handle. A suitable transverse bolt or screw c' is passed through the end of the handle and the shank of a toothed jaw to secure the latter in place 40 in an obvious manner.

A movable jaw D is provided with a flattened portion D'arranged to pass through the slot B in a manner shown more particularly in Fig. 1 of the drawings, and a suitable 45 bolt or pivot d' is passed through the handle A and through the flattened portion of the movable jaw D to pivotally support said jaw in position within the slot. The free end of the jaw D is provided with a forwardly curved 50 portion d arranged to come approximately into line with the apex of the fixed jaw when the two jaws are closed together as in Fig. 1.1

Upon the pivoted jaw D adjacent to the pivotal connection between it and the handle A, is provided an apertured ear e for engage- 55 ment with one end of a spiral tension spring E the other end of which is arranged to engage with a similar ear e' upon one side of the handle A. Two of these ears e' are provided as shown in Fig. 1 and located upon 60

opposite sides of the handle.

By the arrangement of the bolt d' to secure the movable jaw D in engagement with the handle, said jaw may be readily detached from the handle by the removal of the bolt in 65 an obvious manner. If desired a number of jaws similar to the one shown but of different sizes may be employed in connection with one handle, it being necessary in adapting the tool for use upon pipes of greatly differ- 70 ent sizes to simply remove the bolt, disengage the jaw D from the handle and substitute a jaw of the desired size.

By the described construction of the sta-Referring by letter to said drawings A des- | tionary toothed jaw with two serrated or 75 toothed faces, and the handle with the two apertured ears it will be seen that in case of excessive wear upon one face of the stationary jaw, or injury to the teeth of the same. the jaw D may be removed and replaced in 80 engagement with the handle but upon the opposite side thereof. The apertured ear e being thus caused to project through the slot B upon the opposite side of the handle from that shown and in this case the spring E will 85 be engaged with the other one of the ears e'upon the handle in an obvious manner.

By the arrangement of the spring to normally press the movable jaw toward the stationary toothed jaw, the tool is caused to au- 90 tomatically grasp the pipe or other object upon which it is desired to use it.

By the described construction of the toothed stationary jaw C with the shank C' removably engaged with the socket a in the end of 95 the handle, the toothed jaw may be readily disengaged from the handle A and replaced by one of a different shape or size if desired.

In operation the jaw D is first opened to admit a pipe or other object between its 100 curved end d and the serrated face of the stationary jaw C when the spring E will cause the jaw D to bear against the surface of the pipe or other object when by pressure upon

the free end of the handle in the proper direction the jaws will be caused to securely

grip the pipe in an obvious manner.

In practice I find my improved form of tongs very efficient and satisfactory, while at the same time, the tool is exceedingly strong and durable. Furthermore, by the detachable arrangement of the stationary toothed jaw and the movable jaw the range of the tool may be greatly increased by the use of an assortment of different sized toothed jaws and movable jaws, so that the tool may be quickly and easily adjusted for use upon pipes of greatly different sizes.

Having thus described my invention, what I claim as new, and desire to secure by Letters

Patent of the United States, is—

1. A pipe tongs comprising a suitable handle provided at one end with a stationary jaw, having serrated or toothed surfaces upon opposite sides; a transverse slot extending through the handle adjacent to said toothed jaw, a movable jaw having a forwardly curved free end, and pivotally engaged within said slot and provided upon its end adjacent to

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said pivotal connection with an apertured extension, and a spring connection between said extension and the handle substantially as described.

2. A pipe tongs comprising a suitable han-30 dle provided at one end with a stationary jaw having two serrated or toothed faces, and detachably engaged with said handle, a slot extending transversely through the handle adjacent to said toothed jaw, a movable jaw 35 having a detachable, pivoted engagement within said slot, and provided at its free end with a forwardly curved face, and adjacent to its pivotal connection with an apertured extension, and a spring connection between 40 said apertured extension and a suitable projection upon the handle substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

PETER PAULUS.

Witnesses:

JOHN E. WILES, M. M. WILES.