Sept. 30, 1930. E. T. BERGQUIST 1,777,248

TONGS

Filed Jan. 9, 1930

Fig. 1.

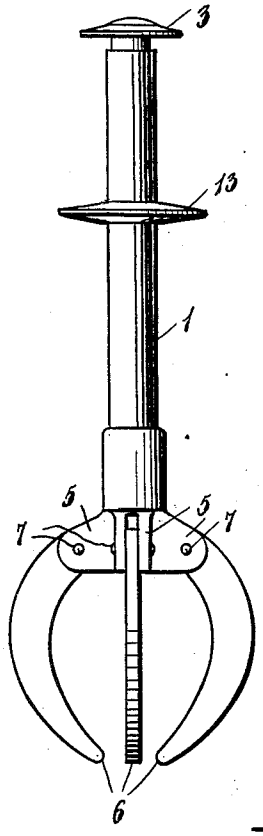


Fig. 2.

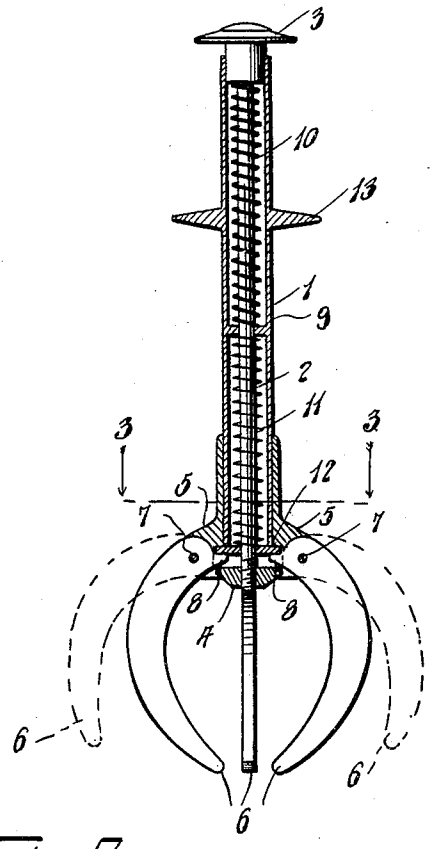
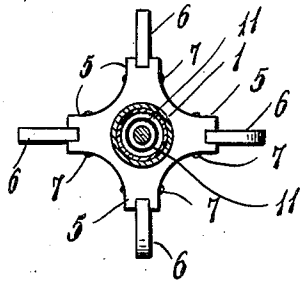


Fig. 3.



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UNITED STATES PATENT OFFICE

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TONGS

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The invention relates to tongs for handling ice cubes and other material and has for its object the provision of tongs of the type employing pivoted jaws, and employing a spring retracted plunger for holding the jaws normally in closed position of spring actuated means to hold the jaws in open position when the spring closing means are released.

The invention will be described in detail hereinafter and will be found illustrated in the accompanying drawings in which

Figure 1 is a view in elevation of the improved tongs,

Figure 2 is a similar view partly broken away, and in section, and

Figure 3 is a transverse sectional view on a plane indicated by the line 3—3 of Figure 2.

In the drawings similar reference characters are used to designate corresponding parts in all of the views.

The improved tongs have a tubular stem 1 on which is slidably mounted a plunger 2 having an operating head 3 on one of its ends and a nut 4 threaded on the other end. The stem 1 is provided with bifurcated ears 5 between which are pivoted curved jaws 6 as shown at 7, each of said jaws being provided with a lug 8 that is engaged by the nut 4 to hold the jaws in closed position. The stem 1 is provided with a partition 9 intermediate of its ends and slidably mounting the plunger 2 and forming a bearing for springs 10 and 11 on opposite sides of said partition 9, the spring 10 also normally engaging the head 3 and tensioned to hold the head 3 outwardly of the stem 1 to hold the jaws in closed position. The spring 11 engages a disk 12 slidably mounted on the plunger 2 and engaging the lugs 8 on the sides opposite to the sides engaged by the nut 4 and said spring 11 operates to expand the jaws 6 to the position shown in broken lines in Figure 2 by pressure against the disk 12 when the spring 10 is compressed by inward movement of the head 3. The spring 10 is of greater tension than the spring 11 and operates to close the jaws against the action of the spring 11 when pressure on the head 3 is released. 13 indicates a circumferential flange that forms a finger hold for the tongs when in operation.

What is claimed is:—

Tongs, comprising a tubular stem, a plunger slidably mounted in said stem, a partition in said stem mounting the plunger, jaws pivotally secured to said stem, lugs on said jaws, a nut adjustably mounted on the plunger and engaging said lugs, a disk slidable on the plunger and engaging the lugs, an expansible coil spring enclosing the plunger, terminally engaging the partition and disk and providing means to open the jaws, an operating head on the plunger, and a spring enclosing the plunger and terminally engaging the partition and head, the second mentioned spring being of greater tension than the first mentioned spring and providing means to close the jaws and hold them in closed position.

In testimony whereof I affix my signature.

EMIL T. BERGQUIST.