Nov. 18, 1924.

I. C. LOVE

FOLDING AX

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Attorney

## 1,515,688 Patented Nov. 18, 1924. STATES PATENT OFFICE. UNITED IRA C. LOVE, OF REECE, KANSAS. FOLDING AX. Application filed April 18, 1924. Serial No. 707,460.

To all whom it may concern: which is bifurcated as shown at 2 in the Be it known that I, IRA C. LOVE, a citizen drawing. Adapted to be pivotally supportof the United States, residing at Reece, in ed in the bifurcated end of the handle 1 is the county of Greenwood and State of Kanthe ax head 3, the same being of the usual 80 sas, have invented certain new and useful construction and provided with a cutting Improvements in Folding Axes, of which edge 4 on one end and the usual hammer the following is a specification. head on the opposite end. The pivot means This invention relates to new and useful for the ax head is illustrated at 6 and the improvements in axes of the folding type ax head is preferably pivoted between the 65 10 and has for its principal object to provide upper bifurcated end of the handle adjacent the hammer head portion 5 thereof. a simple and efficient means whereby the ax head may be supported in an operative Pivotally and slidably supported in the intermediate portion of the bifurcated end or inoperative position. One of the important objects of the pres- of the handle 1 is the latch 7. The latch 7 70 16 ent invention is to provide a folding ax of is provided with a longitudinally extending the above mentioned character, wherein the slot 8 and the pivot pin 9 extends transax head may be readily and easily moved to versely through the bifurcated portions of operative position and held therein against the handle and through the slot 8 of the accidental displacement, the locking means latch 7 whereby the latter is pivotally sup- 75 associated with the ax head and handle ported between the bifurcated ends of the therefor being further provided with means handle. The purpose of the slot 8 is to profor receiving the cutting edge of the blade vide a means for permitting the longitudiof the ax head when the latter is in an inop- nal sliding movement of the latch between erative position thus rendering the handling the bifurcated portions of the handle and 80 25 of the ax when not in use more safe. normally the pivot pin 9 rests in the bottom A still further object of the invention is of the slot 8 through the medium of the coil spring 10 which is disposed in a suitable to provide a folding ax of the above mentioned character, which is of such a conopening provided in the upper portion of struction as to enable the ax head to be foldthe latch and a plug such as is shown at 11 holds the spring 10 in place between the ed into an inoperative position whereby the 30ax may be conveniently carried around in a pivot pin 9 and the bottom of the plug so compact manner and without any danger of that the spring will normally cause the latch the same causing any injury to the person to be disposed in the manner as shown in Figure 1. by the cutting edge of the ax blade. A still further object is to provide a fold-The lower portion of the latch 7 is cut 35 ing ax of the above mentioned character, away at its side as shown at 12 to provide which is simple in construction, inexpensive, the shoulder 13 and the shoulder 13 is adaptstrong and durable and furthermore adapted to cooperate with a similar shoulder 14 ed for the purposes for which it is desigformed on the adjacent side of the handle 1 95 and which extends into the lower portion nated. 40 of the bifurcation 2. The purpose of this Other objects and advantages of this inconstruction is to provide a means whereby vention will become apparent during the the latch 7 will be securely supported in course of the following description. In the accompanying drawing forming a position between the bifurcated portions of 100 45 part of this specification and in which like the handle and in engagement with the ax numerals designate like parts throughout head so as to enable the ax to be properly used in the manners hereinafter to be more the same, fully described. Provided on the upper por-Figure 1 is a side elevation of my imtion of the latch 7 on the said side in which 105 proved ax showing the same in an operative the cut away portion 12 is arranged to proposition with parts shown in section, and vide a shoulder 13 is the flanged portion 15 Figure 2 is a similar view showing the ax and the upper edge of which tapers as shown head in a folded position. at 16 for engagement with the notch 17 In the drawing wherein for the purpose formed in the bottom face of the ax head 3 110 of illustration is shown the preferred emadjacent the hammer head 5 thereof in the bodiment of my invention, the numeral 1 manner clearly illustrated. The flanged designates a handle, the upper portion of

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portion 15 will engage the sides of the bi- ure 2, the ax may be conveniently and safely furcated ends of the handle and also pre- carried around without any danger of the vent the inward movement of the latch when person handling the ax coming in contact the ax is in an operative position. with the cutting edge thereof.

operates with the tapered upper edge 19 of may be and the latch 7 will hold the ax

5 The ax head 3 has its bottom face pro- The simplicity of my device enables the 70 vided with the tapered cut away portion same to be readily and easily placed in an 18 adjacent the notch 17 and the same co-operative or inoperative position as the case the latch 7. The ax head 3 is further pro- head in either position against accidental 10 vided with a shoulder 20 which is arranged displacement. Furthermore an arrange- 75 on each side of the same and the purpose ment of this character provides a device of this shoulder is to provide a means for which may be manufactured at a very low The latch 7 is provided in one of its side stood that various changes in the size, shape faces with the notch 21 and the same pro- and arrangement of parts may be resorted vides a means for actuating the latch. The to without departing from the spirit of the 20 opposite side face of the latch is provided invention and the scope of the appended 85

engagement with the opposite side of the cost and the parts further arranged as to be bifurcated ends of the handle when the ax strong and durable. 15 is in an operative position in the manner While I have shown the preferred em- 80 clearly illustrated in Figure 1. bodiment of my invention, it is to be under-

with a longitudinally extending groove or claims. channel 22, the purpose of which will be Having thus described my invention, hereinafter more fully described. what I claim is:--

seen that the tapered upper edge 19 of the said handle, a latch pivotally and slidably when in use. latch 7 is moved downwardly, it being un- is in an inoperative position. posite direction of the arrow in such a man-the bifurcated ends of the handle when in an

Normally the ax head when in an opera- 1. A folding ax comprising a bifurcated 25 tive position is arranged as is shown in Fig- handle, an ax head pivotally supported in 90 ure 1 of the drawing and it will thus be the outer ends of the bifurcated portion of latch is held in engagement with the tapered supported in the bifurcated portion of the cut away portion 18 of the ax head by means handle, resilient means for normally urging 30 of the coil spring 10 which normally holds the latch into engagement with the ax head 95 the latch upwardly between the bifurcated for holding the same in an operative posiends of the handle and the flanges 16, tion, means for limiting the swinging moveshoulders 20 and the cooperating shoulders ment of the latch in one direction, means 13 and 14 will prevent any possibility of for limiting the swinging movement of the 35 the ax head from accidentally folding up ax head in one direction, said latch being 100 provided with a slot for receiving the cut-When it is not desired to use the ax, the ting edge of the ax head when the ax head derstood that there is sufficient clearance be- 2. A folding as comprising a bifurcated tween the lower end of the latch and the handle, an ax head pivotally supported in 105 bottom of the bifurcation to permit the the outer end of the bifurcated portion of downward movement of the latch and as the handle, a latch slidably and pivotally the latch moves downwardly, the spring is supported in the bifurcated portion of the compressed and the upper end of the latch handle, means for normally urging the latch is brought out of engagement with the into engagement with the ax head for hold-110 tapered cut away portion 18 in the notch 17 ing the same in an operative position, means formed in the bottom of the ax head 3. The for limiting the swinging movement of the latch 7 is then swung outwardly into the latch and ax head in one direction, said direction of the arrow until the same is dis- latch adapted to be disposed in a substan-<sup>50</sup> posed in a substantially horizontal position tially horizontal plane when in one position, 115 in the manner shown in Figure 2. The ax said latch having a groove provided therehead 3 is then swung on its pivot 6 between in for receiving the cutting edge of the ax the bifurcated ends of the handle in the op- head when the same is disposed between

55 ner as to cause the cutting edge 4 of the ax inoperative position. 120 3 to be received in the bifurcated portion of 3. A folding ax comprising a bifurcated the handle and the same will fit in the longi- handle, an ax head pivotally supported in tudinally extending groove 22 formed in the upper end of the bifurcated handle, a one of the sides of the latch, it being latch slidably and pivotally supported in 60 further understood that the groove 22 will the intermediate portion of the bifurcated 125 be arranged in the latch 7 so as to com- end of the handle, a coil spring associated pletely encase the cutting edge of the blade with the latch and the handle for normally of the ax head in the manner more clearly urging the latch into engagement with the illustrated in Figure 2. When the ax head ax head for holding the latter in an operaand latch are in the position shown in Fig- tive position, means at the upper end of the 130

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ated with the lower portion of the latch and <sup>5</sup> adapted for engagement with the lower por-tion of the bifurcated end of the handle for limiting the outward movement of the latch when the ax head is in an operative posi-tion, said latch being adapted to be dis-

latch adapted for engagement with the bi-furcated handle to limit the inward move-ment of the latch, additional means associ-ated with the lower portion of the latch and adapted for engagement with the lower poroperative position. 15

In testimony whereof I affix my signature.

IRA C. LOVE.

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