

No. 701,878.

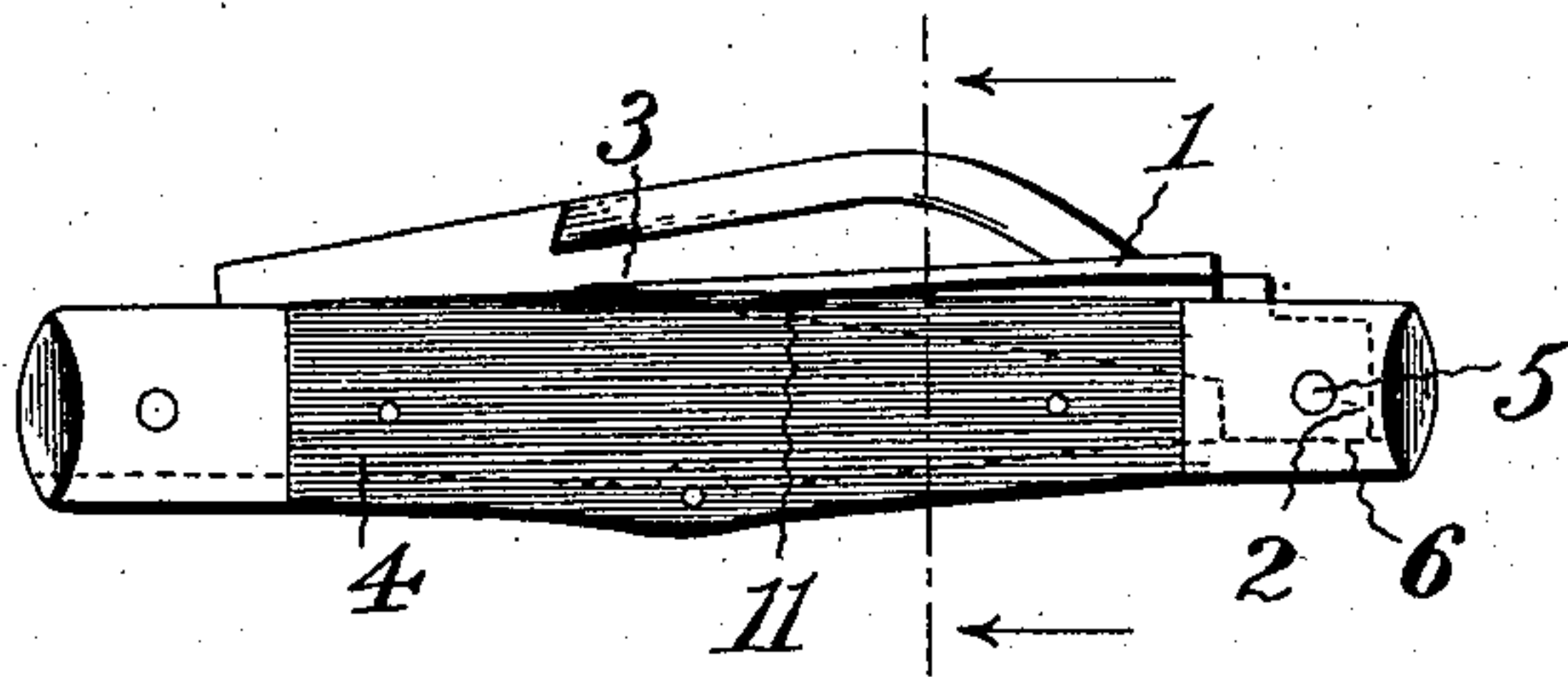
Patented June 10, 1902.

O. L. HARRISON.  
POCKET KNIFE LEATHER PUNCH.

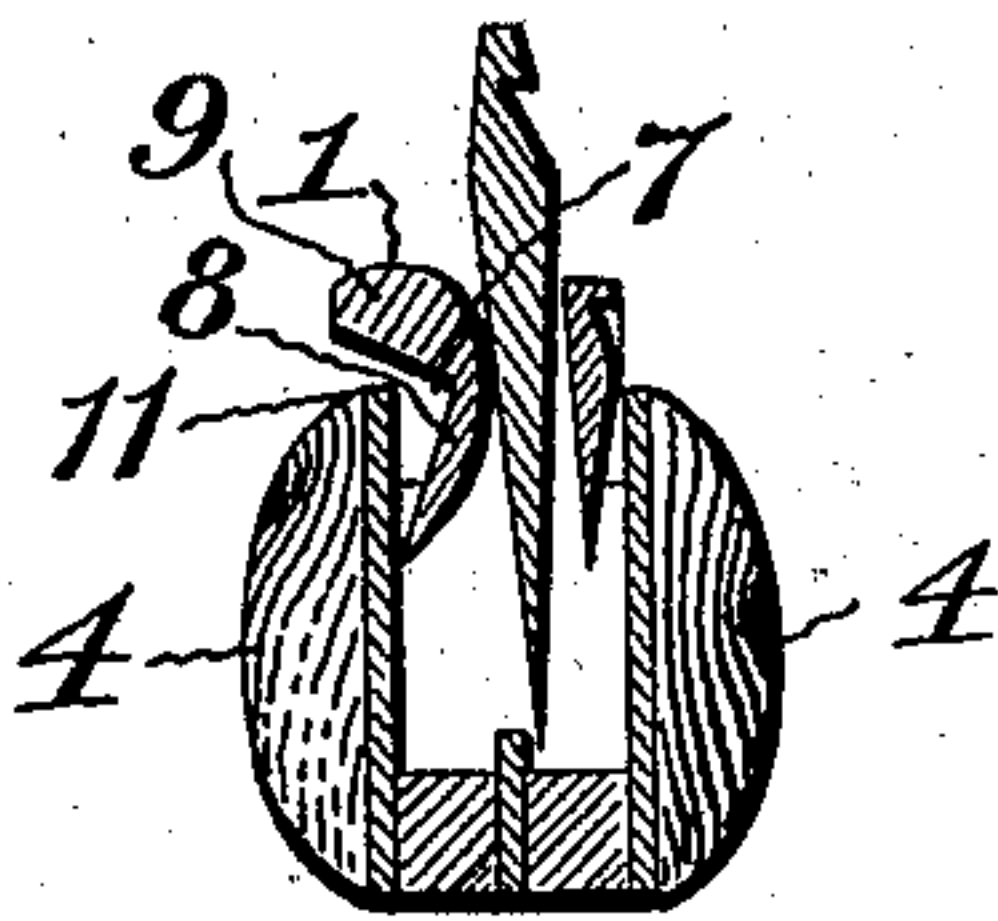
(Application filed Feb. 25, 1902.)

(No Model.)

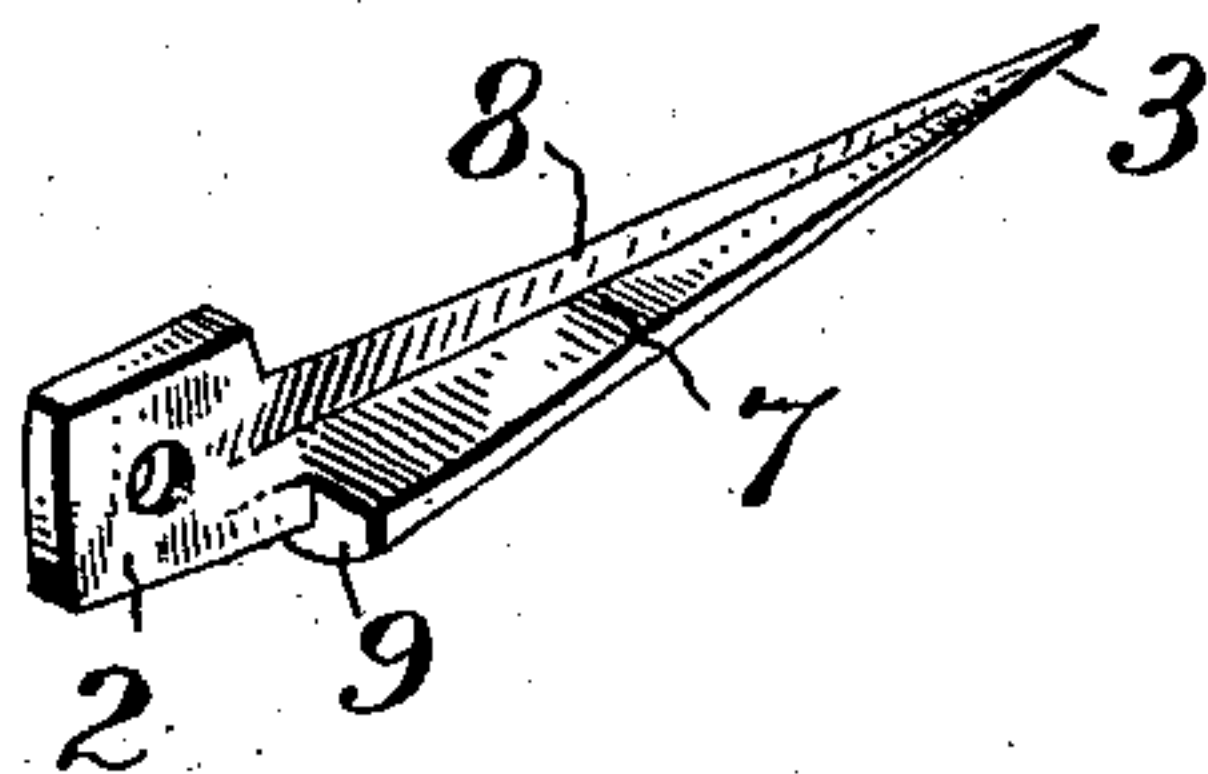
*Fig. 1.*



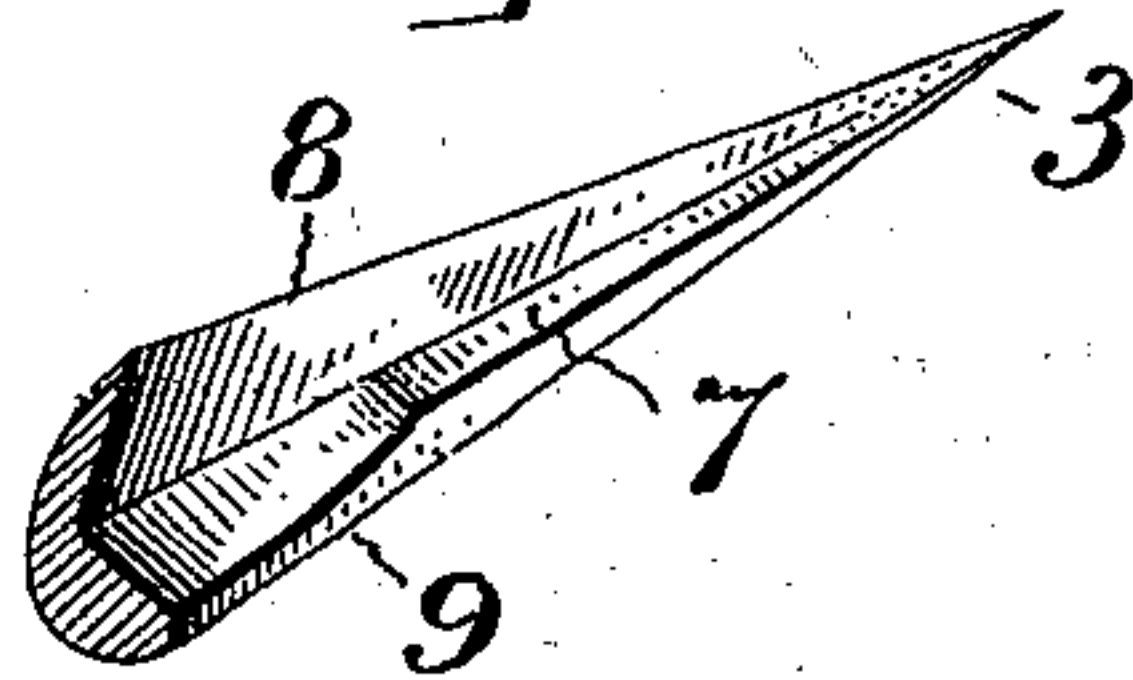
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses:  
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# UNITED STATES PATENT OFFICE.

OWEN L. HARRISON, OF COLETA, ILLINOIS.

## POCKET-KNIFE LEATHER-PUNCH.

SPECIFICATION forming part of Letters Patent No. 701,878, dated June 10, 1902.

Application filed February 25, 1902. Serial No. 95,544. (No model.)

*To all whom it may concern:*

Be it known that I, OWEN L. HARRISON, a citizen of the United States, residing at Coleta, in the county of Whiteside and State of Illinois, have invented a new and useful Pocket-Knife Leather-Punch; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to a leather-punch for pocket-knives; and it has for its object to provide a blade or tool for a penknife designed for punching holes in leather for the accommodation of buckle-tongues and adapted to enable a hole of any size to be readily punched into a strap to adapt the latter for the smallest buckle-tongue or the largest trace-buckle.

A further object of the invention is to provide a punch of tapering form, having a sharp cutting edge and provided with a groove or channel for the escape of the cuttings, and another object of the invention is to arrange the punch so that the cutting edge will extend into the handle of the knife when the blade or tool is closed and to enable the blade or tool to fit snugly against the handle and present a smooth exterior face, so that there will be no liability of the blade or tool accidentally injuring the hand when the knife is used for other purposes.

The invention also has for its object the construction of a punch blade or tool which will be adapted to be readily applied to the ordinary knife-handle and which will not necessitate any increase in the width of the same or any alteration in the construction of the spring.

The invention consists in the novel constructions and arrangement hereinafter shown and described, and particularly pointed out in the appended claims.

In the drawings, in which like numerals of reference designate corresponding parts, Figure 1 is a side elevation of a knife provided with a punch constructed in accordance with this invention. Fig. 2 is a transverse sectional view of the same. Figs. 3 and 4 are detail views of the punch.

Referring to the drawings, 1 designates a tapering punch of approximately semiconical

shape, provided at one end with a perforated shank 2 and tapering toward its other end, which is provided with a solid conical or tapering point 3, adapted to permit the punch to be readily centered on a strap, whereby holes may be punched therein with great accuracy. The shank 2 is secured in a knife-handle 4 by means of a rivet 5 and is adapted to be engaged by a spring 6 at the back of the knife, whereby the punch is held in its open and closed position similar to an ordinary knife-blade.

The body of the punch presents a convexly-curved exterior, and it has a tapering groove or channel 7 at its inner face, which groove or channel is angular, being provided with straight longitudinal faces arranged approximately at right angles to permit the punch to fit snugly against the inner face and outer edge of the knife-handle and also to facilitate sharpening of the punch, as hereinafter explained. The said body of the punch consists of inner and outer longitudinal portions 8 and 9, having the said inner faces and the curved outer faces. The inner longitudinal portion 8, which extends into the handle of the knife when the punch is closed, is much thinner than the outer portion for the double purpose of forming a sharp cutting edge and of permitting the punch to extend into the handle without increasing the width of the same and without necessitating any diminution of the size of the body of the punch. The outer longitudinal portion 9 of the punch is heavier than the inner portion and lies on the exterior knife at the edge of the handle when the punch is closed, and its flat or straight inner longitudinal face fits snugly against the adjacent edge 11 of the handle, which is tapered toward the end to which the punch is pivoted to conform to the configuration of the punch and to enable the same to fit snugly against it and not interfere with the use of the knife when the latter is employed for other purposes. The tapered portion of the knife is provided with a flat edge to receive the punch and the point of the latter fits snugly against the handle, so that there is no liability of the hand of a person coming in contact with the point.

The punch is adapted to be inserted in a piece of leather and partially rotated to cut



a hole of the desired diameter, and it will enable holes of any size within its capacity to be rapidly and accurately cut, and its capacity is such that it will enable a hole to be made  
 5 of any size between the smallest buckle-hole and the largest trace-buckle hole. The thin inner longitudinal portion enables a sharp cutting edge at one side of the punch to be provided, and it also greatly facilitates the  
 10 sharpening the cutting edge of the punch, which may be ground at the straight inner face of the inner portion without destroying the curvature of the outer face. The thick heavy outer longitudinal portion, which is  
 15 provided with a smooth side edge, enables a punch of great strength and durability to be constructed, and the finger of the operator may be placed on this portion of the punch in centering the latter without liability of be-  
 20 ing cut. The longitudinal groove forms a clearance-channel and enables cuttings to readily escape and the solid conical point strengthens the punch and prevents any liability of the same breaking thereat.  
 25 In the accompanying drawings the body of the punch is shown with a longitudinal groove—that is, angular in cross-section—but it will be readily apparent that instead of providing an angular groove an approxi-  
 30 mately semiconical or curved inner face may be employed, and as this construction is perfectly obvious a detailed illustration thereof is deemed unnecessary. Also the corner or  
 35 angle of the groove may be rounded or curved in connection with the flat faces, and the solid point instead of being conical may be of any other desired form, and I desire it to be understood that these and similar changes with-  
 40 in the scope of the appended claims may be made without departing from the spirit of the invention.

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

45 1. In a device of the class described, the combination with a knife-handle, of a punch pivoted to the knife-handle and provided with a longitudinal groove to receive the adjacent outer side edge of the handle and to permit  
 50 the escape of cuttings, said punch being provided with an inner longitudinal cutting edge arranged within the handle when the punch

is closed and having an exterior longitudinal portion extending along the handle and arranged to be grasped, substantially as de- 55 scribed.

2. In a device of the class described, the combination with a handle, of a punch pivoted to the handle and provided at its inner face with an angular longitudinal groove hav- 60 ing flat faces to receive the adjacent portion of the handle and forming an enlarged exterior portion extending along the outer side edge of the handle and arranged to be grasped, said punch being tapered and provided with 65 a curved outer face and having an inner longitudinal cutting edge adapted to be sharpened by grinding the flat face of the inner portion, substantially as described.

3. In a device of the class described, the combination of a knife-handle, and a taper- 70 ing approximately semiconical punch, having a curved outer face and provided at its inner face with a longitudinal groove angular in cross-section to fit the adjacent portion 75 of the knife-handle, said punch being composed of an enlarged outer portion extending along the outer side edge of the handle and arranged to be grasped and a thin inner por- 80 tion having a longitudinal cutting edge and adapted to extend into the knife-handle, substantially as and for the purpose described.

4. In a device of the class described, the combination of a tapering knife-handle and a tapering approximately semiconical punch, 85 having a curved outer face and provided at its inner face with a longitudinal groove, said punch being also provided with a solid conical point and consisting of an inner thin longitudinal cutting portion fitting within the 90 knife-handle and provided with a longitudinal cutting edge, and an enlarged tapering outer portion extending along the outer side edge of the handle and arranged to be grasped and having a smooth exterior edge 95 and fitting against the tapered portion of the handle, substantially as described.

In testimony whereof I have hereto affixed my signature in the presence of two witnesses.

OWEN L. HARRISON.

Witnesses:

E. E. PLUMLEY,

Mrs. E. E. PLUMLEY.