

(No Model.)

G. J. SCHOETTLE.

SLEEVE AND HEAD BRACE FOR PICK HANDLES.

No. 428,528.

Patented May 20, 1890.

Fig. I

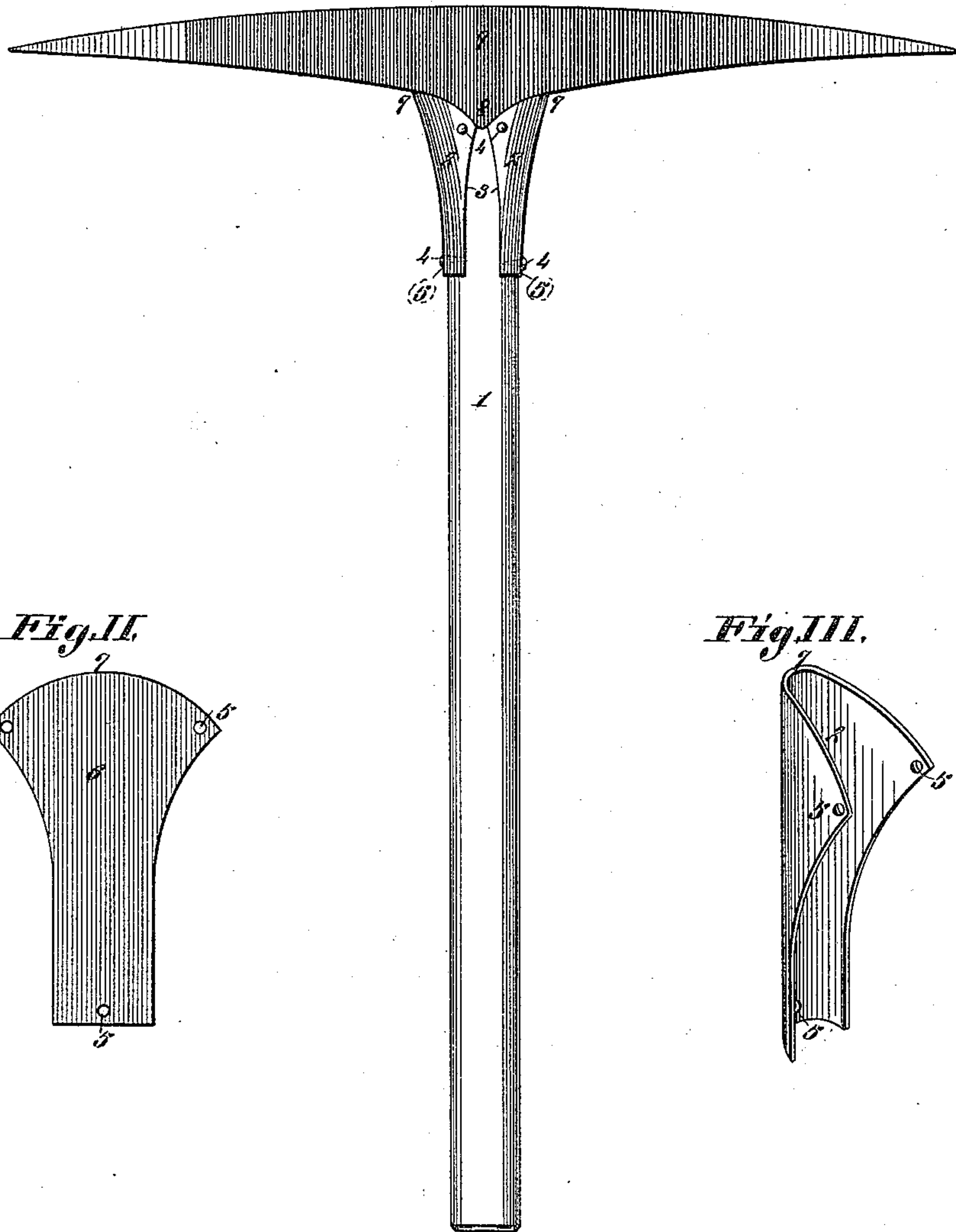


Fig. II.

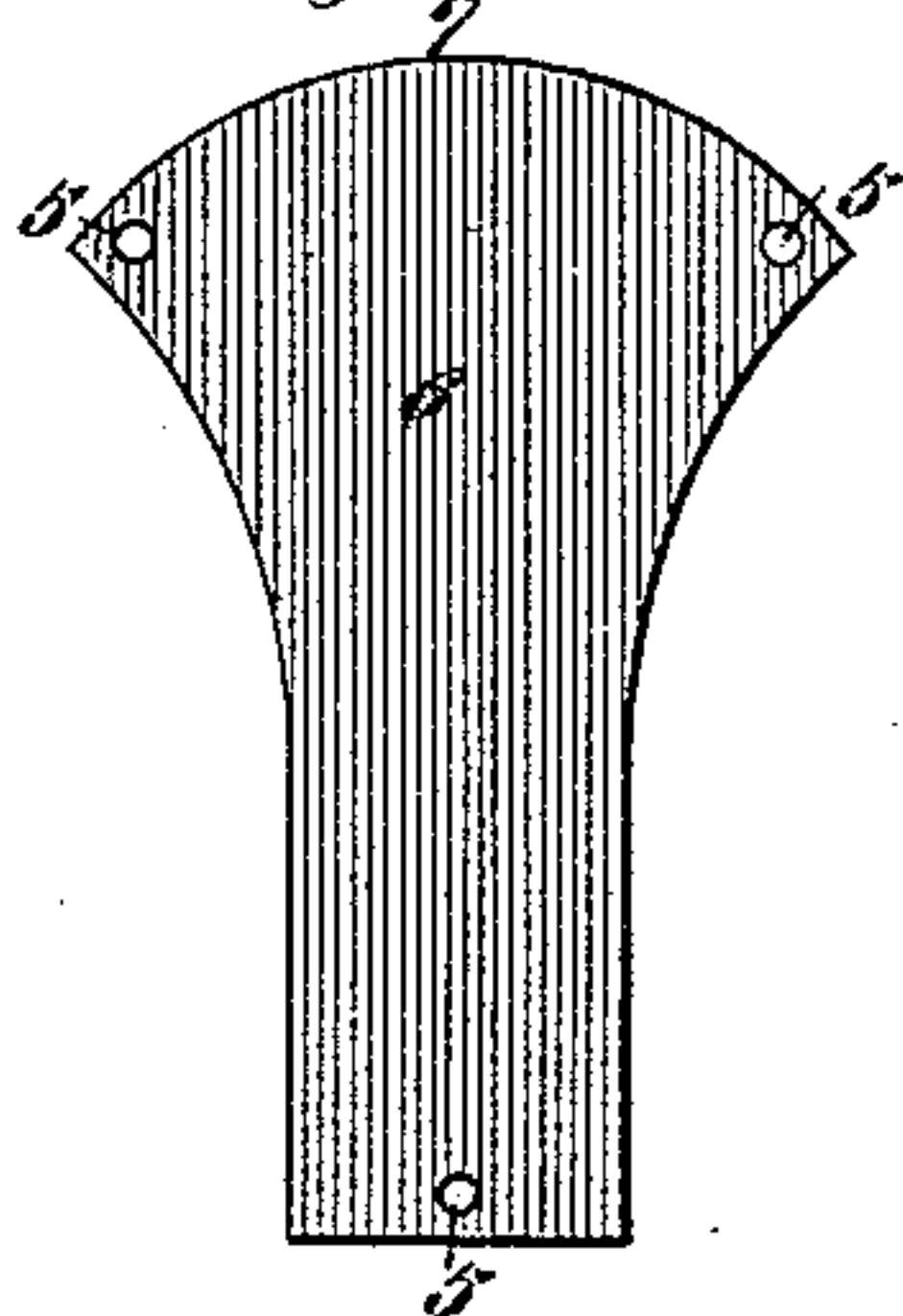


Fig. III.

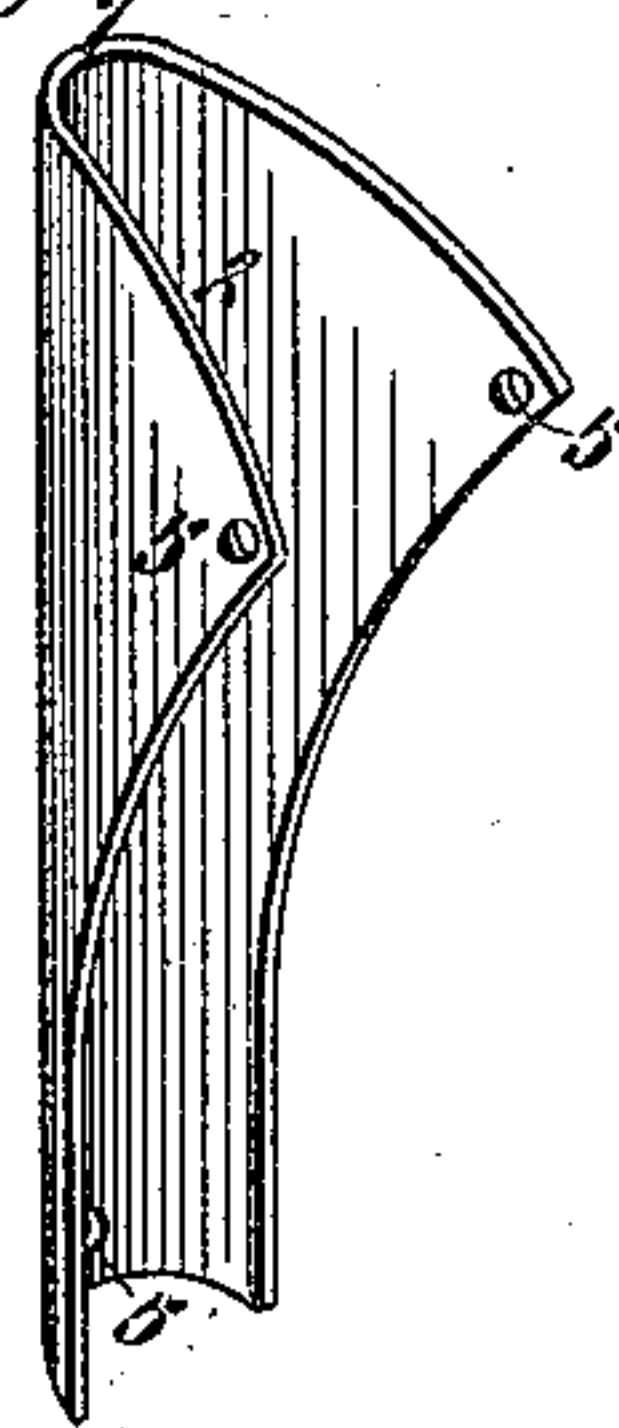
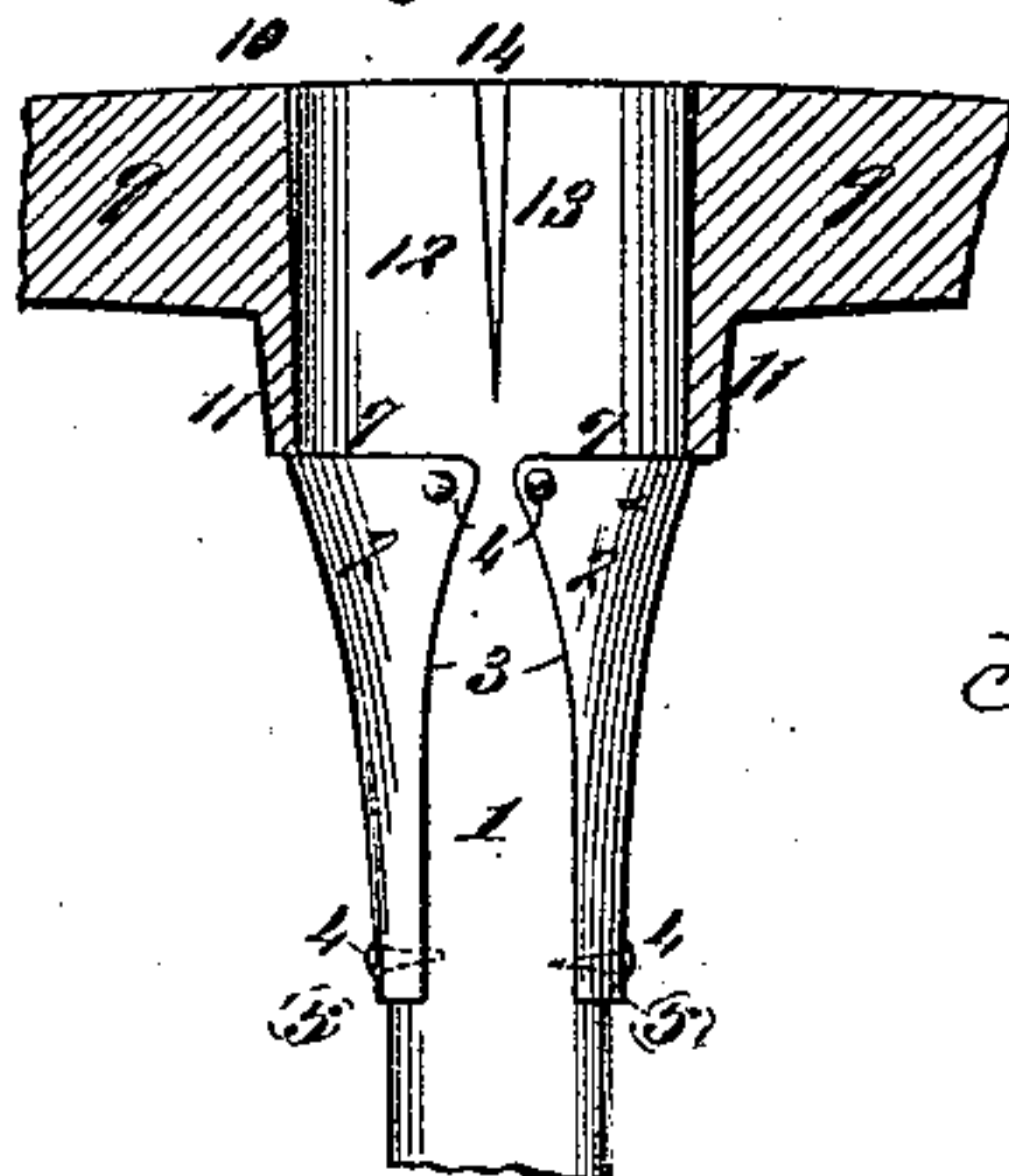


Fig. IV.



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SLEEVE AND HEAD-BRACE FOR PICK-HANDLES.

SPECIFICATION forming part of Letters Patent No. 428,528, dated May 20, 1890.

Application filed November 16, 1889. Serial No. 330,613. (No model.)

To all whom it may concern:

Be it known that I, GEORGE J. SCHOETTLE, of Collinsville, in the county of Madison and State of Illinois, have invented a certain new and useful Improvement in a Combined Sectional Sleeve and Head-Brace for Pick-Handles, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a metal shield or sectional sleeve for tool-handles especially adapted for mining-picks, the said metal sectional sleeve constituting also a brace for the retention of the hold of the handle on the head of the tool at a right angle to said handle and adapted to maintain said rectangular hold under the adverse leverage pressure exerted on the same when the miner or other user of the tool is prying therewith, which is a very common and necessary practice in the use of miners' picks.

Figure I is a side view of a miner's pick with my combined metal sectional sleeve or shield and head-brace attached thereto. Fig. II is an enlarged perspective view of one of the blanks from which one moiety of the sectional sleeve is stamped. Fig. III is an enlarged perspective view of one section of the sleeve; and Fig. IV is a detail section of a railroad-pick with my device attached, in which the brace ends of the sectional sleeves are cut square, so as to present a buffer-brace fitted to the square collar-flange of the head of said railroad-pick.

Referring to the drawings, 1 represents the wooden handle of a pick, to which the stamped or curvilinearly-bent sections 2 of my combined sectional sleeve and head-brace 3 is secured by nails or screws 4, which are seated in perforations 5 in said sleeve-sections and in said handle.

6 is one of the blanks from which said combined sectional sleeve and head-brace is made, which blank is preferably made of steel, either sheet or molded; but may be made from any other suitable metal, and is broader on the upper end, having ears so that it may be bent to surround three sides of the handle.

It will be seen that the brace end 7 of the blank is cut or formed to the arc of a circle when it is intended for use on mining-picks,

so as to maintain a close buffer-brace fit against the curvilinearly-pointed integral flanges 8 back of the pick-head 9 at and each side of the entrance to the eyehole 10, in which the handle is seated.

When my device is attached to the handle of a railroad-pick, as shown in the modification in Fig. IV, said railroad-pick head is, as usual, furnished with a rear flange integral collar 11 at the back of the eye, in which eye and in said collar the handle is seated. As the rear edge of said collar has a straight presentation, the brace ends 7 of the sleeve-sections are cut or formed straight, as are also shown in said Fig. IV.

As is customary with mining-picks, and preferably with all tools to which my combined protecting sectional sleeves and rear head-bracing plates are used, the attachment end of the handle is tapered outwardly at 12, so as to provide a shoulder at the rear of the pick-head or other tool against which the tool braces, as when with miners' picks they are used for prying in the crevices or seams of the coal or other mineral, the said taper point being provided with a split fissure 13, in which, after the seating of the head of the pick or other tool, the wedge 14 is driven home, so as to firmly hold the tool-head to its handle; but the wooden shoulder-brace backing of the pick-head or other tool in the common handle is both soft, so that it does not as securely and firmly hold the head of the tool when prying as does my steel brace, and as the timber seasons and shrinks and the head of the tool becomes loose and begins to wobble the abrasion of the wood soon reduces the shoulder and adds to its incompetence. Moreover, with my steel-plate buffer-brace the pick or other tool head has a firm rear buffer-brace backing of material that is able to hold its own and the pick-head too, and increases the longevity of the tool-handle and the efficiency of its work in the hands of the laborer. At the same time that the device provides a firm buffer-brace hold against the adverse reaction of the tool-head on its handle in prying that will not readily wear out or shrink from its brace-hold, it also provides metal shields that protect the wooden handle from abrasion.

When the wooden handle shrinks, a larger wedge 14 may be inserted therein, and the

nails that attach the sectional steel sleeve are withdrawn and reinserted in position to tighten the same.

Although I prefer to attach the pick-head
5 to the handle, as is usual with mining-picks, from the forward end of the handle, yet it will be seen my device provides the means, even when the pick-head is inserted over the hold by the attachment of the steel sectional
10 sleeves and brace-plates, to form a metallic shoulder that firmly holds and braces against the pick-head to enable it to withstand adverse leverage of the same in prying. In that case, there being an enlarged head on the for-
15 ward end of the handle, when said handle shrinks all that is necessary to do to tighten the hold of the pick-head is to drive it farther home on said enlarged forward head of the

handle, and then forward the sectional sleeve-brace plates to contact with the collar-flange 20
11 of the pick-head.

I claim as my invention—

The combination, with the pick-head having the curved flanges and a handle, of the herein - described protecting and securing 25 sleeve, consisting of the curved segments partially or wholly surrounding the handle, adapted to be placed on any part of the handle and having the curved upper edges corresponding to the curved flanges on the pick-head, sub- 30
stantially as set forth.

GEORGE J. SCHOETTLE.

In presence of—

JOHN SCHOETTLE,
FRED HUFFENDICK.