

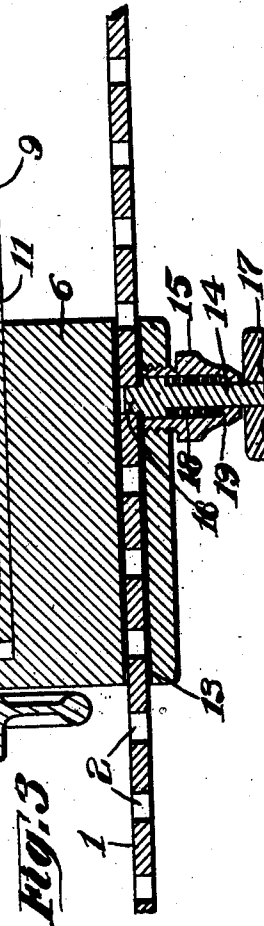
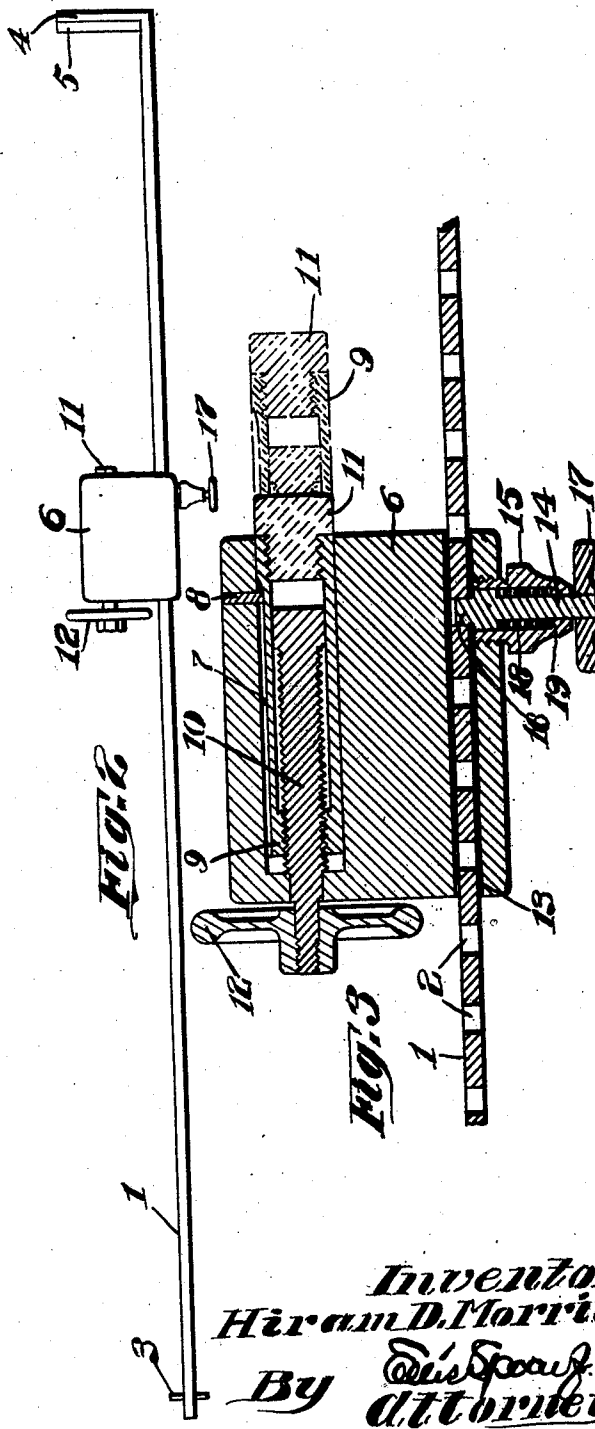
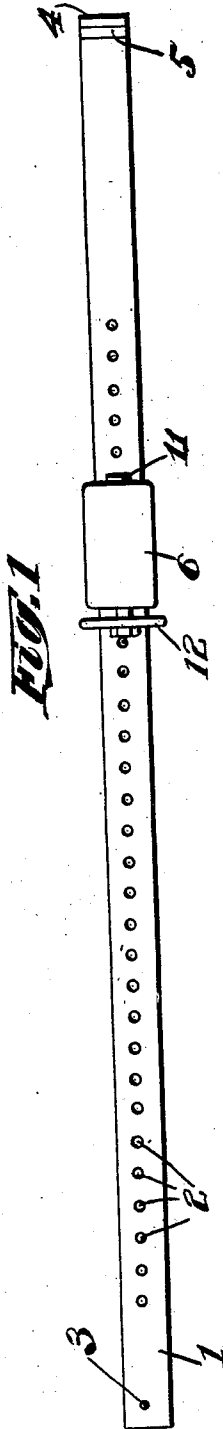
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H. D. MORRILL

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STONE CHIPPING STRAIGHT EDGE

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Inventor
Hiram D. Morrill
By *Edw. Spaulding*
Attorney

UNITED STATES PATENT OFFICE.

HIRAM DEAN MORRILL, OF NORTHFIELD, VERMONT.

STONE-CHIPPING STRAIGHTEDGE.

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This invention relates to a straight edge for use in chipping stone, and consists in the novel construction, combination and relation of parts described and illustrated in the accompanying specification and drawings and particularly pointed out in the appended claims.

In devices of this character, it is desirable that the straight edge be capable of quick and convenient adjustment for application to any edge of the stone and that when adjusted, it will remain of itself in position, leaving both hands of the stone-cutter free to handle the chipping tools.

These objects, together with certain other features of advantage which will appear more fully hereinafter, are secured in the device of the present invention.

As illustrative of the principles of my invention, I shall show and describe a form of straight edge which has been satisfactory in actual use and well adapted to the requirements of manufacture. Throughout the specification and drawings like reference characters are correspondingly employed, and in the drawings:—

Fig. 1 is a plan view of a stone chipping straight edge in accordance with my invention.

Fig. 2 is a side elevation thereof, and

Fig. 3 is an enlarged longitudinal section through the adjustable clamping head of the device.

I have indicated at 1 a straight edge member having between its ends a longitudinal series of spaced holes 2 therein, and provided at one end with a cross pin 3 and at its opposite end with an up-turned flange 4 to the inner face of which is fast a protective strip 5 of lead or like substance which will not scratch or otherwise mar the polished surface of the stone.

Adjustable longitudinally along the straight edge 1 is a clamping head 6 having a longitudinal chamber 7 within which is splined at 8 an internally threaded sleeve 9 through which extends a threaded stem 10. The outer end of the sleeve 9 is provided with a relatively soft bearing 11 of lead or the like adapted to be set against the face of the stone to be chipped. At its opposite end, the stem 10 is provided with a hand wheel 12 by means of which it may be rotated to advance and retract the sleeve 9, indicated in full and dotted lines Fig. 3.

The head 6 is provided with a longitudinal slot 13 through which the straight edge member 1 passes. The adjustment of the head 6 on member 1 is held by a locking stem 14 which is mounted in a bearing 15 threaded into the head 6. The stem 14 is provided at its inner end with a locking portion 16 adapted to be selectively engaged in any of the openings 2 of the member 1. At its outer end, said stem is provided with a handle 17 by means of which it may be withdrawn from an opening 2 whenever it is desired to shift the head 6 relative to the member 1. Between its ends, the stem 14 is shouldered to abut a coiled spring 18 confined within a chamber 19 in the plug 15 and normally urging the locking end 16 of the stem towards the member 1.

In use, the bar 1 is laid over the stone to indicate the line along which the stone is to be chipped with the bent end 4 hooked over the face of the stone and the head 6 adjusted along said bar to bring the clamping nose 11 as closely as possible to the opposite face of the stone. The rough adjustment is held by the engagement of the locking stem 14 in the proper opening 2 of the bar 1.

The fine adjustment is had by rotating the stem 10 to project the sleeve 9 out of the head 6 until its bearing portion 11 abuts the stone, as indicated in dotted lines Fig. 3. The straight edge is now clamped in proper gaging position upon the stone and will of itself remain in such position until intentionally released.

Various modifications in the form and construction of my device may obviously be resorted to without departing from the spirit of my invention if within the limits of the appended claims.

What I therefore claim and desire to secure by Letters Patent is:

1. In a device of the class described, a straight edge having an upturned bearing at one end, an elongated head adjustable longitudinally along said straight edge towards and from said upturned bearing end, a bearing element adjustable longitudinally of said head towards and from said upturned bearing end of the straight edge, means whereby said bearing element may be adjusted relative to said head, and a pull stem carried by said head and adapted for locking engagement with the straight edge, a spring nor-

mally urging said stem into locking engagement, and a handle for withdrawing said stem against the action of said spring.

2. In a device of the class described, a
5 straight edge having a longitudinal series
of spaced holes therein and having an up-
turned bearing at one end, an elongated head
having a longitudinal slot therein through
10 which said straight edge extends and adjust-
able longitudinally along said straight edge
towards and from said upturned bearing
end, and having a longitudinally disposed
chamber, a bearing element adjustable longi-
15 tudinally of said chamber towards and from
said upturned bearing end of the straight
edge, means whereby said bearing element
may be adjusted relative to said head, and
means carried by said head and adapted for
20 selective engagement in said openings of the
straight edge to releasably fix the position
of said head on said straight edge.

3. In a device of the class described, a
straight edge having an upturned bearing
at one end, an elongated head having a lon-
25 gitudinal slot therein through which said
straight edge extends and adjustable longi-
tudinally along said straight edge towards
and from said upturned bearing end, and
having a longitudinally disposed chamber,
30 a sleeve slidable in said chamber and having
a bearing element at its outer end opposing
said upturned bearing end of the straight
edge, a threaded stem for adjusting said
sleeve in said head towards and from said
35 upturned bearing end, and releasable means

carried by said head for fixing the position
of said head on said straight edge.

4. In a device of the class described, a
straight edge having a longitudinal series
of spaced openings, an elongated carrier ad- 40
justable longitudinally along said straight
edge, a bearing element adjustable longitu-
dinally of said carrier, and releasable means
for fixing the position of said carrier on said
straight edge comprising a pull stem 45
mounted on said carrier and adapted for
selective locking engagement in said open-
ings of the straight edge, a spring normally
urging said stem into locking engagement,
and a handle for withdrawing said stem 50
against the action of said spring.

5. In a device of the class described, a
straight edge member, a relatively stationary
bearing element at one end of said member,
an elongated head adjustable longitudinally 55
along said straight edge and having a longi-
tudinally extending chamber, a sleeve
slidable within said chamber and having a
bearing element opposing said stationary
bearing element, means mounted on said 60
head for adjusting said sleeve towards and
from said stationary bearing element inde-
pendently of the adjustment of said head
along said straight edge, and means carried
by said head and adapted for releasable 65
clamping engagement with said straight
edge for fixing the position of said head on
said straight edge.

In testimony whereof I affix my signature.
HIRAM DEAN MORRILL.