Jan. 15, 1952 N. BALDWIN 2,582,898

SPACING PUNCH

Filed March 7, 1949

FIG. 1

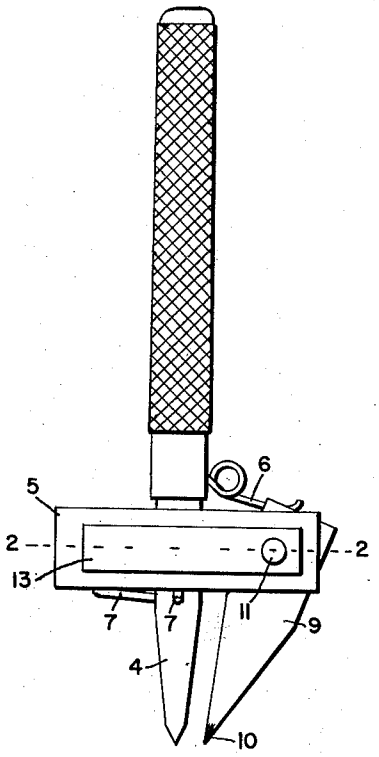
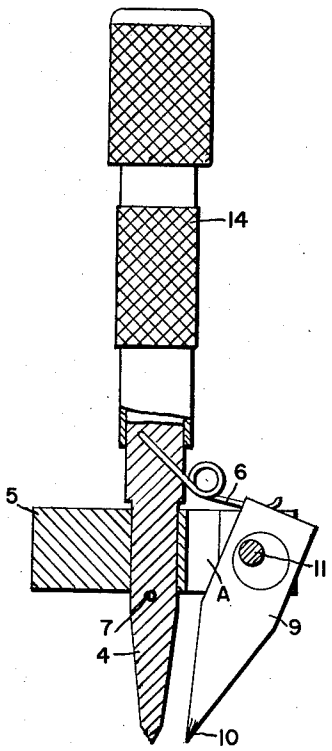


FIG. 3



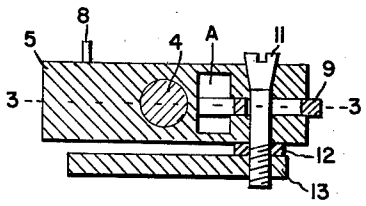


FIG. 2

Nathaniel Baldwin

INVENTOR.

Patented Jan. 15, 1952

2,582,898

UNITED STATES PATENT OFFICE

2,582,898

SPACING PUNCH

Nathaniel Baldwin, Salt Lake City, Utah

Application March 7, 1949, Serial No. 80,043

1 Claim. (Cl. 33—189)

1

The present invention appertains to spacing punches and the object is to provide a convenient tool for making a line of equidistant punch marks and which will save much of the time ordinarily required to make measurements and scratches.

I accomplish this object by the mechanism shown in the accompanying drawing in which Fig. 1 is a side elevation of the instrument as it stands in a vertical position; Fig. 2 is a horizontal section of the same along the line 2, 2 of Fig. 1; and Fig. 3 is a side elevation of a modified form of the device with parts in section along the line 3, 3 of Fig. 2.

In the several figures of the drawing the punch member 4 is fitted closely but not tightly into an aperture in the bar 5. A spring 6 extending outward from an aperture in the punch member 4 presses downward upon the bar 5 and presses it against the stop 7. This stop 7 consists of a small rod inserted into an aperture in the punch member 4 with a short end bent upward and bearing against the bar 5 and a long end bent laterally terminating in a short handle 8. A blade 9 terminating in a spacing point 10 fits into a slot in the bar 5 and is clamped into the desired position by the bolt 11, washer 12, and tapped handle 13. The blade 9 has a large aperture for the bolt 11 which permits adjustment to the desired position. To make the walls at either side of the blade 9 flexible and to permit of easy clamping by the bolt 11 a large opening in the bar 5 is made at A.

In Fig. 3 the punch 4 is provided with a slidable handle 14 which contains a spring and hammer for operating the punch. When the handle is pressed downward against the spring the hammer trips and strikes a blow on the upper end of the punch 4. The handle 14 with the spring and hammer mechanism is comprised in a well known tool on the market, the details of which, not being claimed as part of this invention are not illustrated.

In use the handle 13 is set in the desired position, approximately parallel with the bar 5, and the screw 11 is set up tight with a screw driver. The head of the bolt 11 having a slight taper will set firmly in its socket by friction so that the handle 13 may be turned to loosen and to tighten the blade 9.

To set the blade 9 the stop 7 is first turned

2

so as to raise the bar 5 to its upper position, then the point 10 is adjusted with the proper distance from the point of the punch and approximately at the same level with the point of the punch. When the point 10 is adjusted it is only necessary to press on handle g and the stop 7 will loosen and the long part will swing down by the force of gravity allowing the punch 4 to rise slightly above the point 10 when the pressure is released.

To make a line of equidistant punch marks, a line is made, either straight or curved, and preferably scratched deep enough to feel. A starting punch mark is made on this line and then the point 10 is placed in this first punch mark and the point of the punch 4 is pressed down onto the line bending the spring 6 slightly; then a rap with a light hammer on the upper end of the punch 4 will make the second punch mark, and so on. In case the form shown in Fig. 3 is used the handle 14 is simply pressed downward until the hammer within trips.

For work where uniform spacing of punch marks is important this tool is handy and useful.

I claim:

A spacing punch combination comprising a punch, a bar slidably mounted on said punch, a blade adjustably mounted on said bar, a point on said blade to engage one punch mark, said punch being adapted to slide a short distance through said bar when making a new punch mark, a spring mounted in said punch and adapted to urge said bar downward, and a gravity operated stop having a double setting to limit the position of said bar on said punch.

NATHANIEL BALDWIN.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
426,094	Arnold	Apr. 22, 1890
611,625	Goddard	Oct. 4, 1898
677,339	Comstock	July 2, 1901
688,766	Williams	Dec. 10, 1901
713,021	Starrett	Nov. 4, 1902
1,313,335	Ryan	Aug. 19, 1919