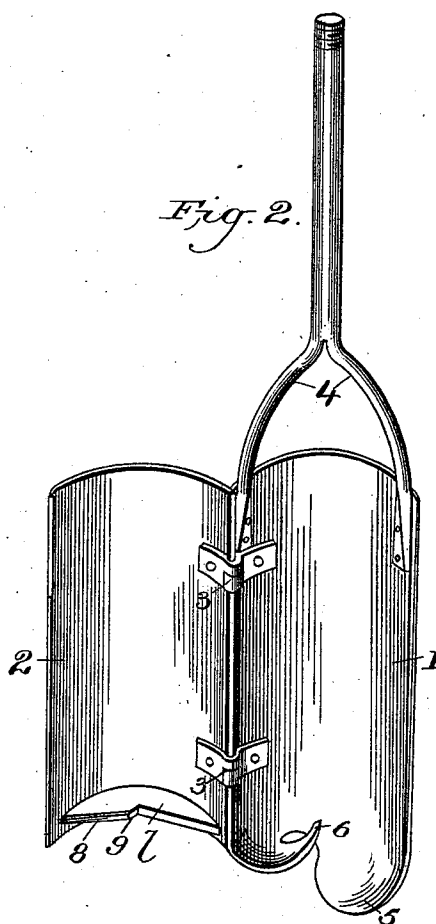
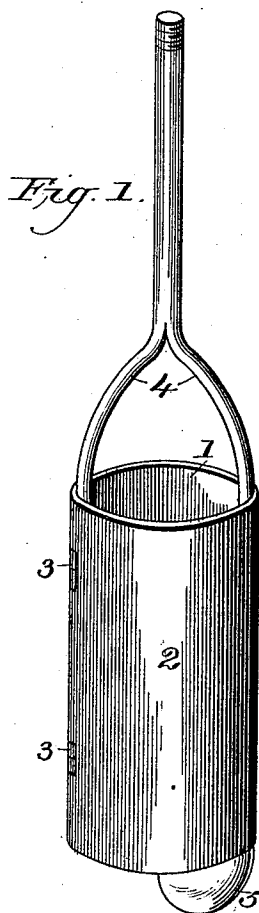


(No Model.)

E. E. SENIFF.
WELL AUGER.

No. 528,695.

Patented Nov. 6, 1894.



Witnesses
J. H. Reynolds
Chas. B. Hyer

Inventor
Edward E. Seniff.
By *John Wedderburn*
Attorney

UNITED STATES PATENT OFFICE.

EDWARD E. SENIFF, OF MERWIN, MISSOURI.

WELL-AUGER.

SPECIFICATION forming part of Letters Patent No. 528,695, dated November 6, 1894.

Application filed February 23, 1894. Serial No. 501,227. (No model.)

To all whom it may concern:

Be it known that I, EDWARD E. SENIFF, a citizen of the United States, residing at Merwin, in the county of Bates and State of Missouri, have invented certain new and useful Improvements in Well-Augers; 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.

This invention relates to well augers, and has for its object to provide a device of the character set forth embodying hinged sections and which operates automatically to release the dirt from the same.

With these and other objects in view the invention consists of the construction and arrangement of the sectional parts which will be more fully hereinafter described and claimed.

In the drawings:—Figure 1 is a perspective view of the improved auger. Fig. 2 is a similar view of the auger thrown open.

Similar numerals of reference are employed to indicate corresponding parts in both the views.

Referring to the drawings, the numerals 1 and 2 designate the two sections of the auger which are semi-cylindrical in form and are hinged at one edge as at 3. The section 1 is the main section and has riveted or otherwise secured thereto two divergent arms 4 extending from a tang 5 and to which a suitable handle is secured. The lower end of the said section 1 is provided with two lips 5 and 6, the lip 5 being curved inward and downward and the lip 6 upward and inward to thereby form an entrance screw point as well as a cutting mechanism. The two lips, 5 and 6, are formed by slotting or cutting away a portion of the metal at the lower end of the section 1 and are of a sufficient degree of hardness to resist breakage and also to produce the cutting action. The said lips are so positioned as to cause the earth or dirt to be forced upwardly through the sections when the auger is in use through the opening which exists between the two lips. To facilitate this action the lower inner portion of the section 2 is provided with a flange 7 having a beveled edge 8 with shoulder 9 to facilitate closing over the adjacent edge of the tongue 6 and

force the dirt or earth upward over the said lips 5 and 6 in a spiral manner through the tube which is formed by placing the section 2 against the section 1. Both of said sections are slightly tapered and have a cross sectional diameter toward the bottom which will permit the formation of the larger part of the opening at said point and the ready withdrawal of the auger from the hole being bored, as will be understood.

In using the auger sections of gas pipe are attached from time to time to form the handle in accordance with the depth which is required that the auger shall be worked and which has a clamp thereon with a ring in each end in which is put a spike, this construction not being shown, in view of the fact that it is well known.

The hinge construction of the auger is to prevent loose dirt or sand from falling while lifting the auger from the hole in which it has been operating. The chief object of this construction is the automatic release of the dirt from the auger while boring and the hinge section will open and let loose the dirt therein and when the auger is raised the hinge section will open and the dirt will be permitted to fall out without any trouble.

It is obviously apparent that many changes in the proportion, minor details and construction of the several parts might be made without in the least departing from the nature or spirit of the invention.

Having thus described the invention, what is claimed as new is—

In a well auger the combination of the two sections, one of which is hinged to the other, a lower shouldered flange in connection with one of said sections and a pair of lower lips in connection with the opposite section, one of said lips extending downward and inwardly and the other upwardly, a suitable handle being attached to the auger, substantially as for the purpose specified.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EDWARD E. SENIFF.

Witnesses:

JAS. P. TAYLOR,
THEADOR SHUSTRE.