1203X

P. Easton.

Earth Auger.

Patented Feb. 1, 1810.

Fig. 1.

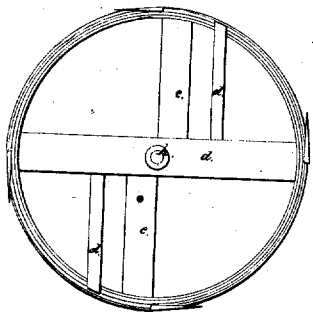


Fig. 2.

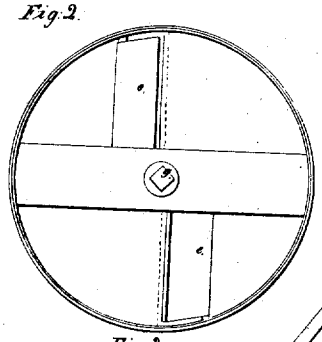


Fig. 3.

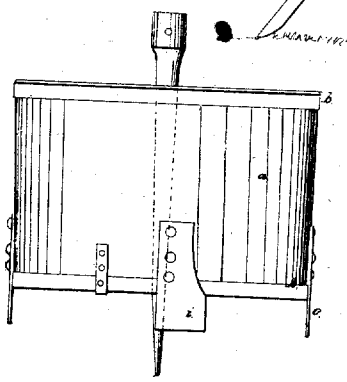


Fig. 8.

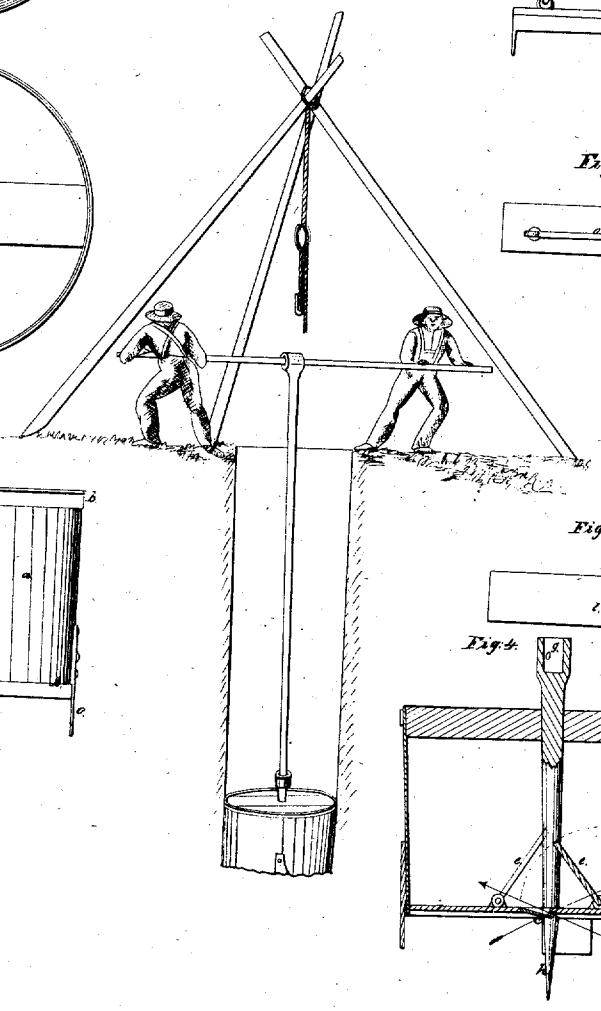


Fig. 5.

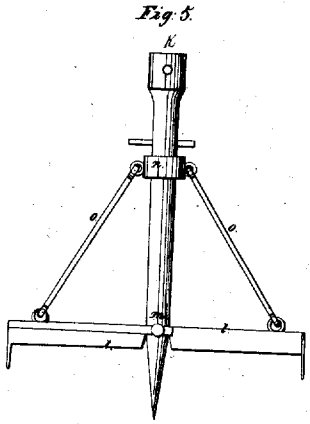


Fig. 6.

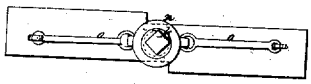


Fig. 7.

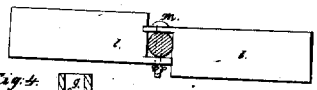


Fig. 4.

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

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Pat. 1. 1810

Peleg Coston
Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Peleg Coston himself of his machine for sinking Wells in or under Water.

The machine for receiving and extracting the sand Gravel &c from the Well consists of wood or Sheet Iron resembling a Tub or Funnel shaped in shape which may be varied in length &c diameter, but the convenience of the user said machine being to nearly cylindrical &c for the diameter of the upper end or top not to exceed the diameter of the lower end more than one half or 3/4 of an inch for the purpose of receiving the Iron Hoops one near the top and the other at the bottom or smallest end to strengthen it, which is composed of Wood or Sheet Iron, near the center of the bottom is fixed the auger to which consists of Iron and Steel, answering to the description of the auger, within or under said auger exactly at right angles the center of said auger and diameter of the machine is a strip of Iron equal in dimensions to that of the auger which serves as a support to the same, besides which there are several other pieces of a like size for the purpose of hanging the auger, braces &c the end bars &c. all which been up on the outside of the machine and are fastened with screws &c. The bottom or lining of the machine with in the above described Iron frames is, or may be Sheet Iron, and requires to be nearly or quite water tight, except the center of the top or upper end for inside to inside a piece to exceed three inches which a piece of Iron with a socket at the upper end of it by 4 inches and running to a point at the lower end passing thro the center of the Iron frame at the bottom answering to the center screw of the auger, the socket above mentioned to receive the shank or shaft in, two pieces or strips of Iron of a like size attached to above on board across the bottom in a parallel line with the horizontal rollers, one on the one side, and the other on the other side, about 6 in

from the cutter which forms the length of the valves, and leaves [illegible] them on, in the outward circumference of the machine is placed four perpendicular cutters or knives about four inches in length, at proportionable distances from each other which cutting or severing the earth by of the perpendicular end of the auger and spindle as independent therefrom. When the machine is working in the ground the cutters or spindle cuts off the centre of the earth, the perpendicular cutting or knives cut off the circumference similar to that of the centre bit. while the horizontal cutting answering to that of the auger raises the earth between the circumference and centre of the machine; and receives it into the mouth of each valve, which while the compression is downward, the fore part of the valves gradually arises from the cutter in proportion to the thickness of the earth between the valves; and the cutter answering to the core or boring of the auger until the machine is full when raised from the bottom, the valves fall close on the lips of the horizontal cutter and prevents the sand or boring from returning, by which means the machine being full navigably will hold no water. With respect to the other part of the apparatus described in the drawing for the purpose of boring &c. it consists of iron particularly the socket and spears, the cutters thereof are steeled and tempered; the socket is about 9 inches in length tapering downward to a point, similar to the other part of the boring, both being wrought with the same sharp edge, 3 or 4 inches from the lower end of the point [illegible] spindle, is a hole about ¾ of an inch in diam.r; to which the horizontal cutters are fixed, with a shoulder and lip lapping on each side of the spindle, each lip being perforated agreeing with that in the spindle, thro which is placed a steel forming a joint; below the socket is a band of iron or traveller up and down on each side of which is fastened one end of each spear, the other end extending to the horizontal cutter within 6 or 8 inch.s of the outward end and fastening to it, so that the machine being strongly by the socket the traveller and outward end of the cutters pin by means of the middle joint and

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withdrawn the chain &c. again when she is let down into the water & consists
of to the earth it distance or length in inches. Suppose it to reach
the outside of the keel, and when here screwed with hand or handspike,
as the other part of the machine described above, it raises and forms the
excavation as large or larger and smaller. By withdrawing a pin like
below the socket and above the handle, then the chain, or the rods
the outward ends of the cutters are sharpened and turned down hav-
ing an perpendicular cutting to cut the circumference.

Witnesses
Sidney Sandrel
Wm. B Sandrel

Sidney Smith Esqr.

(936 words) Sincerely &c.