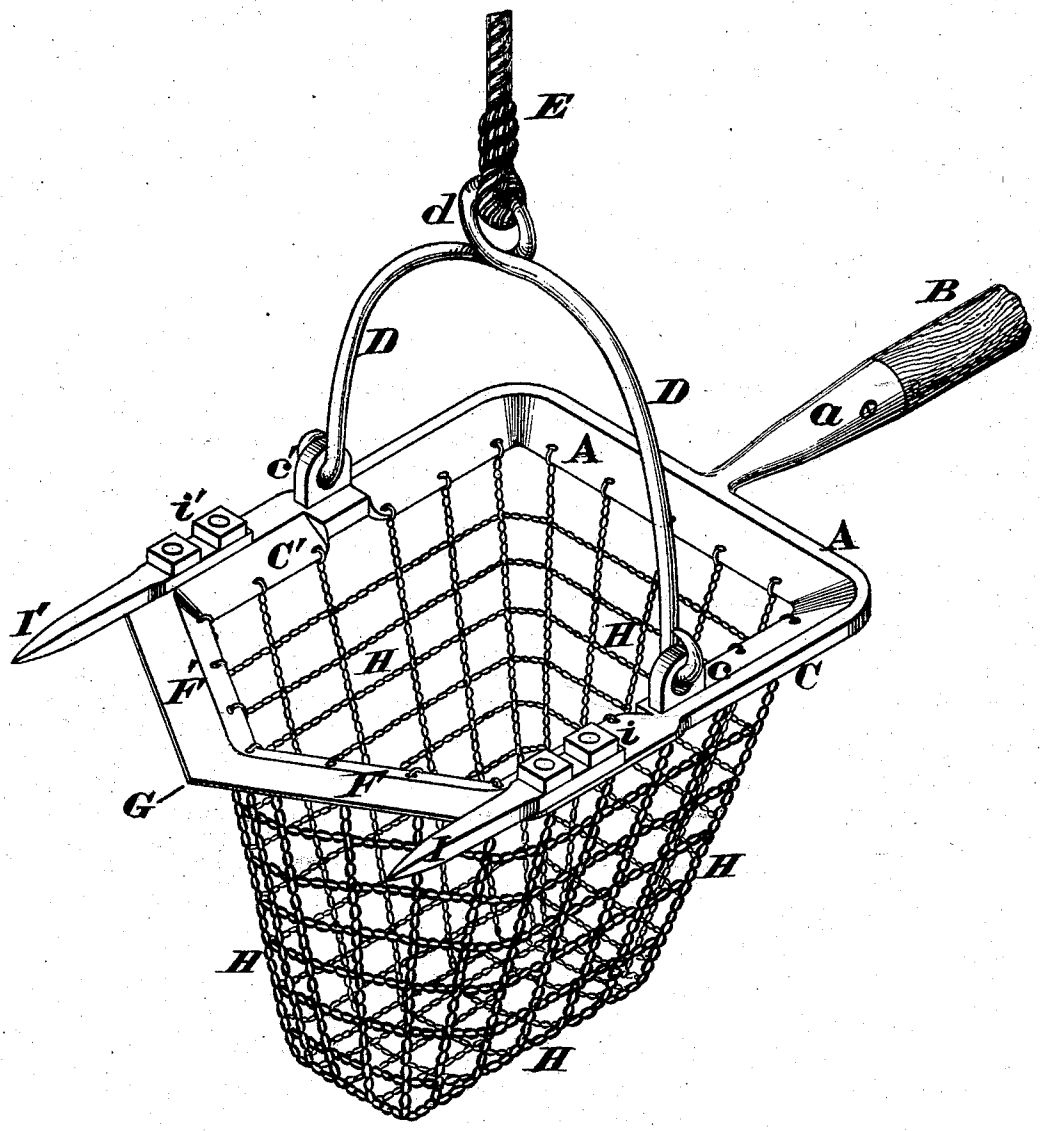
J. WALMER.

Oyster and other Dredges.

No. 144,169. Patented Oct. 28, 1873.



Attest.
Jas. H. Layman.
John Kilbourn.

Joseph Walmer
By Knight Bros
Att'ys.

A.M. PHOTO-LITHOGRAPHIC Co. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

JOSEPH WALMER, OF LUDLOW, KENTUCKY.

IMPROVEMENT IN OYSTER AND OTHER DREDGES.

Specification forming part of Letters Patent No. **144,169**, dated October 28, 1873; application filed August 27, 1873.

To all whom it may concern:

Be it known that I, JOSEPH WALMER, of Ludlow, Kenton county, Kentucky, have invented a new and useful Dredging-Scoop, of which the following is a specification:

This invention relates to that class of scoops wherewith coal or other sunken material can be scooped up and lifted to the surface of the water, which comprises an open frame, constituting the scoop proper, and a chain bag depending therefrom; and my improvement consists in imparting to the forward end of the frame that supports the bag or sack a pointed or lancet shape, which enables said frame to penetrate the materials to be elevated. In addition to this lancet-point, the frame is furthermore provided at its extreme sides with two forwardly-projecting spurs or prongs, that assist in separating the coal or other sunken materials, thereby enabling the scoop to be used in the most effective manner, and with the least expenditure of power.

The accompanying drawing is a perspective view of a dredging-scoop embodying my improvements.

A represents the rear portion of a metallic frame, to which a socket, *a*, is applied for attachment of handle B, that may be of any suitable length. Projecting forwardly from the member A of the frame, and at right angles thereto, are two side bars, C C′, that are provided, respectively, with ears *c c′*, to which the bail D is secured. Attached to the eye or loop *d* of this bail is a rope or chain, E, wherewith the scoop is raised and lowered. The side bars C C′ are united to two converging ones, F F′, that meet at a point, G, which point is midway between the bars C C′, and in line with the socket *a*. Depending from the above-described metallic frame A C C′ F F′ G is a basket, sack, cage, or net, H, which is, preferably, composed of chains, so as to combine strength with lightness. Secured by bolts *i i′* to the side bars C C′ are forwardly-projecting spurs or prongs I I′, which may be readily detached from the frame when not needed.

The entire apparatus is lowered with the rope E until it comes in contact with the sunken materials, when the handle B is manipulated in such a manner as to force the converging end G of the frame into the coal or other substances. Owing to the lancet shape of the forward end of the frame, together with the pointed spurs I I′, the scoop is enabled to enter and separate the sunken materials with the greatest facility, and with comparatively little exertion on the part of the operators who manage the apparatus. The materials, being separated by the conjoint action of lancet G and prongs I I′, fall into the sack or basket H, which, when filled, is elevated by the rope or chain E. During the ascent of said basket, the water, sand, and other débris raked up by the scoop escape between the meshes of the sack; and the result is, that when the coal is discharged from the scoop it is free from all such foreign substances.

I claim as my invention—

The described dredging-scoop, consisting of the metallic frame A *a* C C′, converging bars F F′ G, forwardly-projecting prongs I I′, chain bag or basket H, suspending-bail D, and handle B, when arranged and adapted to be operated in the manner explained.

In testimony of which invention I hereunto set my hand.

JOSEPH WALMER.

Attest:

GEO. H. KNIGHT,
JAMES H. LAYMAN.