(12) **United States Patent**
Scarbrough

(10) **Patent No.: X3873**
(45) **Date of Patent: May 19, 1824**

(54) **LEVER POWER, &C**

(76) Inventor: **William Scarbrough**

(William Carlough)

Letters Patent

To all whom it may concern be it known that I William Carlough of the County of Lancaster and State of Pennsylvania have invented a new and useful improvement in the mode of planking vessels and I do hereby declare that the following is a full and exact description thereof reference being had to the accompanying drawings forming part of this specification.

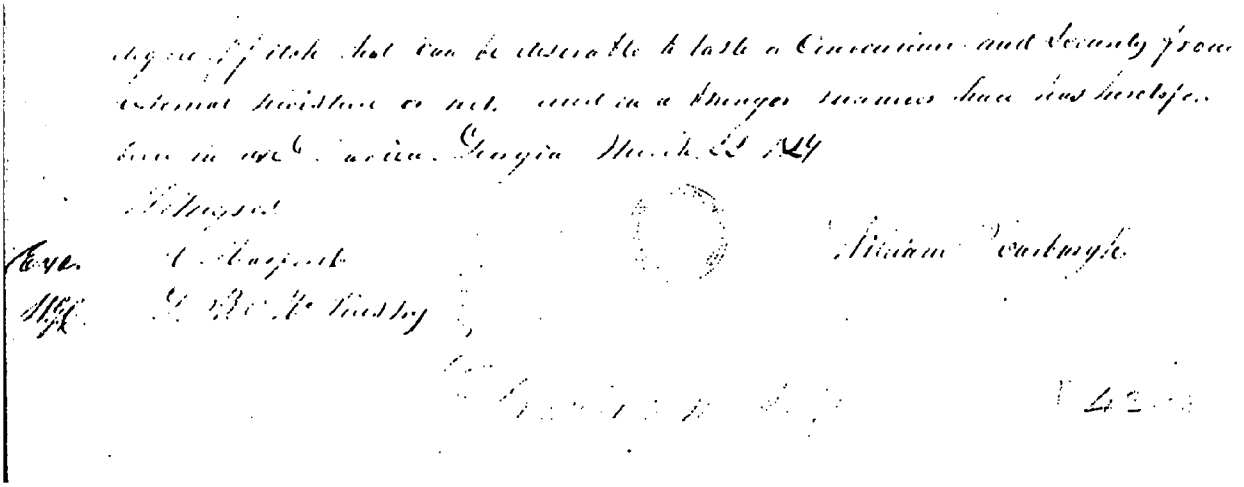
The nature of my invention consists in the application of the principle of the arch when vertically horizontally diagonally applied in the planking or outer casing of the vessel and in the application of the same principle to the construction or building of ships boats vessels of any description and also in the roofing of houses barns outhouses and in all cases where strength is required.

The annexed plate is a partial illustration of the principle as regards the lateral pressure to the sides of vessels when sailing or pitching and plainly manifests that the use of knees and beams as the means heretofore used may be entirely dispensed with and augmented strength acquired and by elegance of application bringing into use planks of such short lengths as could otherwise be made to impart ease a new ease and strength. The application of the same principle may be made highly useful in the building and framing of vessels and in their external planking but particularly in the building or internal planking of each plank of which is bent to every inch and rise in a diagonal or angular direction instead of the old horizontal or straight forward manner. The outer deck plank may be sheathed with iron plank or boards tongued and grooved and dowel united, which will add preservation to the lower decks and an ornament to the vessel.

In large vessels where great strength in the beam is required a special and particular advantage is manifest both in the saving of timber and the additional strength acquired by the division of the beam into two parts and the more especially as the longitudinal beams between them may by this process be made to serve as the keelson generally in the construction of vessels. The application to roofing will enable the roofing of buildings to be made at the least possible

United States Patent

Patent No.: X3873



DRAFTSMAN'S DIVISION.

All communications should be addressed to "The Commissioner of Patents, Washington, D. C."

2—328 *a.*

DEPARTMENT OF THE INTERIOR,

United States Patent Office,

Washington, D. C., ..., *189*...

SIR:

The printed Copies *of Patent No.* McCarburgh

are *exhausted.* May 19 1885

As soon as printed a copy will be mailed you to complete your order.

By direction of the Commissioner:

Very respectfully,

Chief Clerk.

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United States Patent

Patent No.: X3873