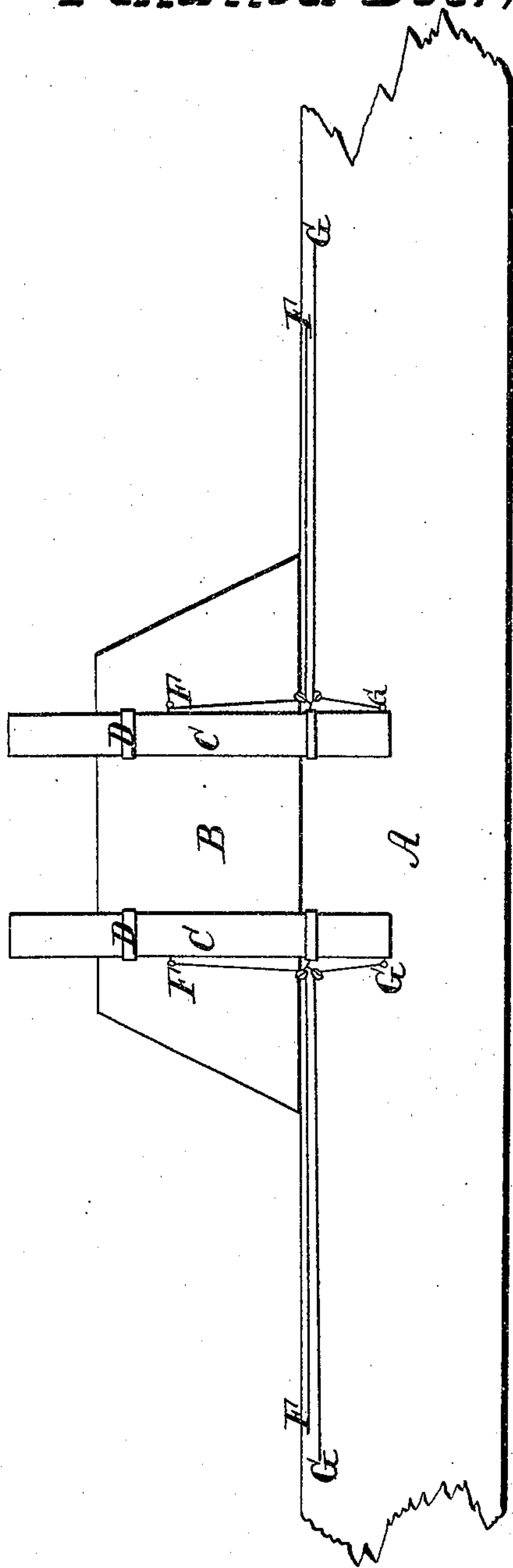


*J. Smith.*  
*Keel Pall.*

*Nº 12,104. Patented Dec. 19, 1854.*



# UNITED STATES PATENT OFFICE.

JONATHAN SMITH, OF NEPONSET VILLAGE, MASSACHUSETTS.

METHOD OF HOLDING VESSELS BY THE KEEL IN DRY AND OTHER DOCKS.

Specification of Letters Patent No. 12,104, dated December 19, 1854.

*To all whom it may concern:*

Be it known that I, JONATHAN SMITH, born in the town of Duxbury, Massachusetts, and now resident in Neponset village, in the county of Norfolk and State of Massachusetts, have invented a new and Improved Method of Holding Vessels by the Keel in Dry, Sectional, or Railway Docks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

B is a keel block which rests on and is confined to the bearer A.

C is a pawl which slides in the straps or hasps D and E, by which straps it is confined to the keel block B and the bearer A.

F F is a rope or chain attached to the pawl C and led through a block to the side of the dock by which the pawl C can be hauled down.

G G is a rope attached to the pawl C and led through a block to the sides of the dock by which the pawl may be raised. It is intended that these pawls should be used in pairs.

When hauling a vessel on the dock the pawl on the opposite side to where the vessel is should be raised and the vessel hauled against it and then the opposite pawl raised which will confine the vessel on the middle of the keel blocks between the two pawls.

What I claim as my invention and desire to secure by Letters Patent is—

The arrangement of the keel pawl as herein described.

JONATHAN SMITH.

Signed in presence of—

JOHN A. LORING,

HORACE I. CRANDALL.