wnter mections to still or smooth water. This facility of construction enables this improved llreakwater to be affixed und IIarlours formed on any, even the most exposed and dangerous, localities. The forms of these floating sections will vary according to the exigencies of the vurious situations. In seas and deep waters they will be ontirely floating; and for shallows and in-shore protection, moveablo piles, sluices, and dock gates peculiar to this invention are adopted. .

Independent of the sanction of the numerons distinguished l'atrons of this $p$ lan, ns now presented to the public, its praeticability and effieney has been tested on $n$ amall seale, and has obtained the approval of nnutienl and scientific men, the best nble to decide on its merits.
lesides the vast snving in the cost (tell thousand pounds expended by this plan being more (ffective than ten hundred thousand by stone Breakwaters) this Flonting IBreakwatcr possesses many adrantages of inculculable superiority over all others. Such as the very short sjuce of time requisite for its construction, four or five months being amply sufficiont. Its loing made in sections, also, renders its repair at nny given part an easy operation, both as regards time and expense, although it can be confidently asserted that no repair will be needed during the first fiffern years; and then, should repair of any "part becoue necessary, the old material will always realize one half its original cost.

It also prevents the aconnulation of mad and sand, and their injurions consequences to harboirs und chamels, which it is too well known are the constant defects caused hy all stone llreakwnters.

And this plan can be adopted and harbours and places of refuge formed where not only none at present exist, hut where also none, other than by this methed, can be construeted.

That the Government of this country will avail itself of the ready means which the facilities of this invention afforl, to effect works of such paramount importance, (whieh it has hitherto been deterred from undertaking solely because of their apprehended immense cost), there enn be little or no doubt. Tho increasing necessities of commeree will also secure its nuloption by the corporations of maritime places, which have leretofore been precluded from possessing so essential a requisite for the prosperity of their trade.

The invention is also peculiarly adapted for improving and enlarging, at a trifing expence, old harbours, readering their access easy for ships in distress, and clearing their channels, and removing mud deposits, by concentrating the force of the tide or currents; and we may fairly rely that there is searcely a single port in the united kinglom which will not avail itself of the bencfit now presented by having some sections of the lreakwater laid down, the cost being so comparatively small and the advantages being so great; particularly as the parliamentary returns shew, that wherever a harbour has been improved, or increased harbour nccommolution afforded, trade has invariably risen at an extraordinary rate, and the harbour dues have nlso in like manner as rapidly and pregressively incrensed, ns the following extract from those official returns prove:-

| tiserpool. | $\begin{gathered} \hline 1600 \\ c 10,037 \end{gathered}$ | $\begin{gathered} 1 \times 40 \\ 2: 23,378 \end{gathered}$ | $\begin{gathered} 1810 \\ c+45,-5 *: \end{gathered}$ | $\begin{gathered} 1820 \\ c 94,112 \end{gathered}$ | $\begin{gathered} 182.3 \\ \mathrm{f} 12 \mathrm{~N}, 690 \end{gathered}$ | $\left\lvert\, \begin{gathered} 1 \times 30 \\ t 151,330 \end{gathered}\right.$ |  | $\begin{aligned} & \text { Increased } \\ & \text { in } 40 \mathrm{Y} \text { eare } \\ & \mathrm{c} 122,943 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vilasgow. | $\begin{gathered} 1915 \\ \text { c5.900 } \end{gathered}$ | $\begin{gathered} 1 \times 201 \\ c a_{r} 2 \times 1 \end{gathered}$ | $\begin{gathered} 1826 \\ \mathrm{c} 10,3 \mathrm{OH} \mid \end{gathered}$ | $\begin{gathered} 1 \times 30 \\ c 210,000 \end{gathered}$ | $\begin{gathered} 14,35 \\ c 33,000 \end{gathered}$ | 1830 |  | $\begin{gathered} \text { lucreaved } \\ \text { in } 21 \mathrm{Y}_{\text {cara }} \\ E 31,100 \end{gathered}$ |
| thandee | $\begin{aligned} & 1 \times 16 \\ & \text { C } 1.409 \end{aligned}$ | $\begin{gathered} 1 \times 2 \mathrm{a} \\ \mathrm{c} \%, \kappa \Leftrightarrow \theta \end{gathered}$ | $\begin{aligned} & \text { IN.30 } \\ & \text { C11,0NO } \end{aligned}$ | $\begin{gathered} 1 \times 34 \\ {[8,5001} \end{gathered}$ | $\begin{gathered} 1836 \\ C 12,000 \end{gathered}$ | $\begin{gathered} 1 \times 37 \\ \text { E, } 15,1000 \end{gathered}$ |  | $\left\lvert\, \begin{gathered} \text { Increased } \\ \text { in } 21 \text { Years } \\ \mathrm{f11,201} \end{gathered}\right.$ |

The following is the number of vessels leblonging to dillerent nations, which passed the Lizarit I'oint in the conrse of 11 single year, English $\mathbf{1 5 , 0 0 0}$, American and l'reuch $\mathbf{3 , 1 5 0}$, Wanes nud Sivedes 1000 , I'russians aud Norwegians, Dutch, and Russian 1000, Spanish, I'ortuguese and others 500, making n total of $\mathbf{2 0 , 6 5 0}$ vessels; and taking the averuge to be ten men to every ship, gives the number 20N,500, and of thear vessels 15,000 (with 150,000 souls on board,) pens the laud's cud every yeur, some making nore than one vogage; and it is ascertained that npwards of 500 vessels are aunually wrecked on our coasts, causing a loss of life of 1,200 mariners, and of property to the amonnt of $\mathbf{£ 3 , 0 0 0 , 0 0 0 \text { . } . ~ . ~ . ~}$

Were harkours and phaces of refuge forment, as contomphated by this Company, this dreudful calamity would, it is obvinus, le in great part averted, and the fearful sarrifice of life an: 1 property would be greatly diminished.

The result to the Shareholders on the emphoyment of the Company's worka and means in such a meritoricos canse, cannot fail to enkure a return in a precusiary pritut of view, which will far exceed the mott

 mont suceresfully and profitally be "xtemoled to various other important objects, of minor, though scurcely less us.ful jurpmen, sheh ne the protertion of embankmeute, fortifications, piers, mill-dams, bridges, \&e, which are now "xpamed to the unresinteel fury of the sen ; vewsels on Alare, ean also be protected from further damago by mowring sections of the Hreakwater near them. The prevention of the sea's encroachment on lowlands subject (1) its risitations, will alan form in material feature of the utility of this insention, and ita nuplication in aid of "ןkration for regaining lands from the watery element, will wensibly diminish the expense of such undertakiug. Its use will also be uppreiated in sceuring the sufe landing of passengere, ind gookls by the steamers nut other vessela, und grently tehd fo increase our fisherica, by affording at a very monderate outlay security to und fishing craft, and protection to the meriourims and haty fivherman, whose daty expowire and exertions hase wuth preseing claime on every fiemel th hamanty

