Despatches.

sufferers by the fires at Quebec, should be expended in the purchase of the requisite machinery and its conveyance to Canada. This gentleman has lately

has a tendency to diminish the risk of fires in a wood is used. country in which, as in Canada, wood is extensively In order to give Your Lordship some idea of the used for the construction of dwelling houses, I think value of the preparation in question, I beg to send it right to bring these suggestions under Your Lord-you some pieces of Wood sawed from a large Log ship's notice in case you should think them proper prepared in *Portsmouth* Dock Yard, with the miniobjects, either for expending upon them a part of the sum lately voted by Parliament for the relief of the mable, and also a piece of canvas, in the same state; sufferers by the fire at Quebec, or for making them by placing a portion of either in the flame of a the subject of an application to the Provincial Parcandle or lamp, you will at once see the effect. liament.

I have &c.

(Signed,)

STANLEY.

Governor,

The Right Honourable Lord Metcalfe, G. C. B. &c. &c. &c.

> Admiralty, Somerset House, 31st July, 1845.

MY LORD,

It is not without considerable diffidence that I venture to intrude myself upon Your Lordship's attention, and indeed, I should not have done so but from the hope that the great importance of the subject, in a material point of view, will prove my best excuse for troubling you.

No one my Lord can have heard of the sad calamity which has on two occasions lately befallen the inhabitants of Quebec, by the conflagration of their City, without feeling desirous of preventing this from happening a third time; and this my Lord I have much satisfaction in informing you, can be done effectually, and at a comparatively small expense.

Circumstances connected with my public duties, forced upon my attention eight or nine years ago, the possibility of preventing dry rot in timber, and mildew in canvas, &c., in which I have most fully succeeded, and my method is now employed to a great extent in the Royal Dock Yards, &c., and by private gentlemen.

In pursuing my experiments I soon discovered that my preparation possessed also very valuable properties of another nature, when the composition was employed in a more concentrated form; in short, that it rendered wood, canvas, and even the finest muslin, incapable of receiving or sustaining flame; and thus either a ship, or a house, constructed of materials so impregnated, is made incapable of being burned by fire.

Having communicated this valuable property to the Lords Commissioners of the Admiralty, their Lordships were pleased, in March, 1844, to cause the most trying experiments to be made by the Officers of Portsmouth Dock Yard, and these having fully succeeded, orders were soon after issued, that all the Bulkheads of magazines of ships of war, and the other Bulkheads below, and also the Timber of all kinds, used in the vicinity of the fires in war steamers, should be prepared with the solution in question, and to effect this purpose, there are two piece was two feet long, five inches wide, and three powerful hydraulic machines at work in *Portsmouth* inches thick. Each piece was cut into two equal

long on this subject, but I was desirous of shewing part was unprepared. you that it is no ephemeral matter I am endeavour-

the sum granted by Parliament for the relief of the that Lord Haddington and Admiral Sir George Despatches. Cockburn, or the Board of Admiralty generally, will fully confirm all I have advanced on the subject, and I shall be ready to afford Your Lordship any further returned to the Province, and would be prepared to information you may desire on this important busiafford to Your Lordship any explanation which you ness, for it is not applicable to Quebec alone, but the might require on the subject.

Considering the importance of any measure which to those of North America, and to any place where

mum quantity required for rendering it uninflam-

The accompanying Pamphlet will shew Your Lordship, how extensively and successfully it is used.

I have. &c.

(Signed,) W. BURNETT, Director General of the Medical Department of the Navy.

Right Honourable Lord STANLEY.

(Copy.)

ADMIRALTY, 14th August, 1845.

In reply to your letter of the 9th instant, with enclosure from Sir Wm. Burnett, I am commanded by My Lords Commissioners of the Admiralty, to transmit to you for the information of Lord Stanley a copy of a Report from the Officers of Portsmouth Yard, upon the effects of his solution applied to the purpose of preventing ignition in Timber, or rather to prevent it from breaking into flame. In consequence of that Report, My Lords have ordered the Bulkheads in the holds and magazines of Her Majesty's Ships to be fitted with Timber so saturated; and it is also applied largely to the various buildings in Her Majesty's Dockyards.

I send for Lord Stanley's further information, a copy of a statement of the price per Load, of preparing Timber for building purposes.

I am, &c. w. B. J. HAMILTON. (Signed,)

G. W. HOPE, Esq., Downing Street.

> PORTSMOUTH YARD, 13th March, 1844.

With reference to your directions of 1st ultimo, to make experiments as to the degree of prevention against ignition into flame which Timber, saturated with Sir Wm. Burnett's solution, affords comparatively with Wood of the same and unprepared, we have the honour to state, that we have very carefully instituted a series of experiments on this sub-

jest, of which the following are the results.

Eleven different kinds of Timber were tried, each and Chatham Dock Yards, capable of impregnating parts one foot long, and one part was prepared with eighteen loads of timber daily.

I fear I have already detained Your Lordship too tion of 1lb of chloride to four of water,) the other

Care was taken, after the preparation, to endeaing to bring under your notice, and I feel confident vour to bring both to the same degree of dryness.