instituted several experiments with the view to ascertain what strength of the solution would successfully resist ignition into flame, the following are the results:

1st—The Hard Woods, such as African, Dantzic and English Oaks, are not much affected by the solution in respect of ignition into flame, whatever be the strength of the solution.

2d.—In the case of the ordinary strength (1 lb. of the Chloride to 4 Gallons of

Water,) the prepared and unprepared Woods are very nearly alike.

3d.—In solution of 1 lb of Chloride of Lime to 12 Gallons of Water, and do. to 2 do., we found that certain Woods when exposed to the immediate contact of Iron, heated to a Blood Red Heat, did not at all ignite into flames, whereas unprepared wood of the same kind burst into flame immediately.

THE FOLLOWING ARE THE WOODS.

1 lb. to 12 Glls. of Water.	1 lb.	to 2	Gl	ls. of V	Vate	er.		
Dantzic,		Spruce Deal, Polish Larch, Riga Fir,						
Spruce, Polish Larch,								
Scotch,								
				Yellow Pine.				
1 lb. Chloride to 2 Gallons of				•		ing Garanta		
Ditto 2 Ditte	and the second second	Same Are	1.44	4.00				
and in both cases the prepared Woods successfully	resisted	igni	tion	into	flan	ıe.		
while the unprepared burst instantly into flame. The following is the comparative expense of fitting	the Bulk	hea	ds o	f the h	old	of		
a line-of-battle-ship, with ordinary timber unprepared	l, and wi	th ?	Yell	ow Pi	ae a	nd		
Riga Fir, prepared with solution of one lb. Chloride	to 2 gall	ons	of '	Water.				
Bulkheads, &c., in hold of English Oak—3 in. thic feet, at 7s. 6d. per foot,	k, 2,760	cu	bic	£966	0	0		
Do. Yellow Pine, 3 in., 2,760 feet, at 2s. 4d.,	£322	0	0					
Solution,	243	•	0	1.44				
Labor,	12	18	0	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
				577	18	0		
The Community Co			\$ 2.79	900	<u> </u>			
Difference in favor of Yellow Pine, Bulkheads, &c., in hold of Riga Fir—3 inches, 2760)	a sel Vil		388	z	U		
Cubic feet, at 3s.	£414	n	n	**				
Solution,	7 TOTAL L	_	Ö.			and Grani		
Labor,	12			ranki ya				
Tabol,			, —	646		0		
					شد			
Difference in favor of Riga Fir,				3 19	2	0		
We have, &c.								
	(Signed)		R.	BLA	KE,	,		

53, King William Street, London Bridge, 13th August, 1845.

SIR -

In obedience to your desire, I beg to inform you that the cost of preparing Timber for building purposes, if it be desired to preserve it from dry rot only, will be from 9s. to 13s. 6d., per load, according to the greater or lesser absorbent properties of the Wood.

But

J. WATTS, J. OWEN.