## MISCELLANEA

Tue coal product of Nova Scotia for 1874 was as follows :-Cumb-riend county, 49,599 tons, Picton county, 357,920 tons; Cape Breton county 337,020 tons, other counties, 4588 tons; total, 749,127 tons. The destination of the coal was as follows:-Nova Scotia, 214,955 tons; Quebec, 162,269 tons; New Brunswick, 78,841 tons; Newfoundland, 55 696 tons; Prince Edward Island, 41,948 tons; United States, 138,335 tons; West Indies, 47,844 tons, South America, 5077 tons, and to Europe, 4152 tons.

Is the patient really dead or not? is at times a very anxious question A medical practitioner of Cremona proposes a simple method by which the question may be answered with certainty. Itisto inject a drop of ammonia beneath the skin, when if death be present, no effect or next to none, is produced, but if there be life, then a red spot appears at the place of the injection A test so easily applied as this should remove all apprehasious of being buried alive.

SLATE FOR ENGRAVERS .- As a matter of interest to wood-engravers, the discovery is worth noting that plates of polished slate may be used as substitutes for box-wood engraving It is stated that such engraved plates will furnish 100,000 impressions without loss of detail, and are not affected by oil or water. One drawback which they possess, is that they are readily scratched, an objection from which wood is almost free.

Marking tools.—Much trouble can often be saved by marking tools with their owners' names, which can easily be done in the following manner: Coat over the tools with a thin layer. of wax or hard tallow, by first warming the steel and rubbing on the wax warm until it flows, and let it cool. When hard, mark the name through the wax with a graver, and apply nitric acid; after a few moments wash off the acid, and wipe it with a soft rag, when the letters will be etched into the steel.

Tale has been recommended by MM. Vigier and Aragon for incrustation.

well glued joint is given as follows :-

	Pounds per square inch.			
	Across the grain,		With the	
	end to end.		grain.	
Beech	2133		1095	
Elm	1436		1124	
Oak	1735		568	
White wood	1493		341	
Maple	1422		896	

It is customary to take from one-sixth to one-tenth of the above values, to calculate the resistance which surfaces joined with glue can permanently sustain with safety

boxz interesting particulars were given in the course of the Schiller inquiry of the life in the Bishop Lighthouse, which is, make fast the boat by a grapnel and then let a man down by a | comfortable " rope, or hoist him up in a similar way to the door of the house. In a storm the tower trembles so much that plates and cups fall from the shelves and the glasses of the light break. According to The Nacy, this part of the evidence was given in ceurt, but not from the witness-box, and it does not all appear in the notes.

THE BEST TIME TO CUT TIMBER -Dr. Hartig, who has made numerous experiments to determine the point, states that March and April are the best months in which to cut timber for building purposes, as it then contains its lowest per cent. of moisture, which he states to be forty-seven per cent. During the three previous months it has fifty-one per cent., and the three following ones forty-eight. He further states that properly-seasoned timber should not contain more than from ressels having taken cargoes this summer.

twenty to twenty-five per cent, of moisture, and never less than ten per cent. If the moisture is removed to a still greater extent the wood loses strength and becomes brittle. Another authority states that if trees are felled as soon as they are in full leaf, and allowed to remain undisturbed until the leaves dry up and fall off, the timber will be found well seasoned, the leaves having exhausted all the moisture.

PAPER BUCKETS -The real possibility and advantage of the varied and extending uses of paper pulp are illustrated in the manufacture of such articles as water-pails, which are now made in large numbers of this material, as well as of wooden staves. In the old way of making pails, the separate parts or staves are cut, one at a time, from a log or wood, and in making them, all the chips and smaller precess are wasted, so far as the real object of manufacture is concerned. In making a paper pail, however, the fibrous material is wholly util zed, and if the original stock is wood, as in part it may be, then that which would be wasted in chips and in fag ends is entirely saved. These who make paper tell us that thus far they have barely entered on some of their new lines of product.

An Abithmetical Curiosity .- The Atherwise contains the following curious arrangement of figures:

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:	16	3	. 2	1	13	
!		_	. —	1	_	
I	5	10	11		S	:
ı	_	_	: -			
	9	G	7	1	12	i
	_	_	: —	ï	_	
	4	; 15	14	,	ı	ì
1	_		<u>!</u>			i

It will be seen that the sum of each line, each column, and each diagonal is 34 The four corner figures, 34. The corner figures of any equare of four figures (of which there are four in the larger square)-31. The four figures of the central the prevention of incrustation in boilers. It is used on the in the larger square)—31 The four figures of the central Paris and Lyons Railway, and it is stated that the quantity of square 34 The four figures of each corner of the whole square, tale introduced into the boiler is about one-tenth of the weight | 34 Making altogether twenty different w yearn which 34 may of deposit accumulated between two consecutive blow-offs. It be reckoned The other sums of 34 may be obtained by taking is stated not only to prevent but to leasen and remove old the figures which stands next to the corner figure, going round from left to right, thus, 3, 8, 14, 9—34. Then take the figures Strength of a which stand to the left of the corner figures, going the other way round, 2, 5, 15, 12-34.

WHILE Dr Priestly was a minister at Leeds, Mass , a poor woman who labored under the delusion that she was possessed by a devil, applied to him to take away the evil spirit which tormented her. The doctor attentively listened to her statement and endeavored to convince her that she was mistaken. All his efforts proving unavailing, he desired her to call the next day, and in the meantime he would consider her case. On the morrow the unhappy woman was punctual in her attendance. His electrical apparatus being in readiness, with great gravity he desired the woman to stand upon a stool with glass legs, at the same time putting into her hand a brass chain connect of with the conductor, and having charged her plentifully with electricity he told her very seriously to take particular notice of what he did. He took up a discharger and applied it to in the winter months, cut off from communication with the her arm, when the escape of the electricity gave her a pretty world for long periods of time. The sea dashes sand right to strong shock of There, she said the devil's gone, I saw him the top, though it is 110ft, above high-water mark, and the t go off in that blue flame, and he gave me such a jerk as he ordinary way of embarking and discinbarking from a boat is to t went off. I have at last got rit of him, and I am now quite

> IT has been ascertained that the American wild rice makes first-rate paper-white, tough, and flexible, and it is estimate ! that 100,000 tons of this material can be obtained from the Canadian lakes alone each year

> Mr. Gerald C. Brown, of Perth, has leased 1,500 acres of phosphate lands in the township of Buckingham, county of Ottaws, Quebec, and intends developing them at once. The lease extends over a period of 50 years.

> Fourteen thousand four hundred tons of coal were shipped at Pictou in one work. The carrying of coal from Pictou is now almost exclusively done by steamers, very few large sailing