ingenuity of the country; that it is questionable whether any distinction should be made between large whether any distinction should be made between large and small inventions, so long as they are original and useful; and lastly, that patent laws require and are capable of being amended. It is very certain that patent monopoly has largely assisted in encouraging the development of an amazing amount of ingenuity, in producing entirely new sources of industry, and in extending and improving many old manufactures. Among industrial arts, ubsandry is much indebted for machine which a quarter of a century back would have been thought impossible ever to realize. Among industrial arts, ubsandry is much indebted for machine which a quarter of a century back would have been thought impossible ever to realize. Among hamanfactures, how many entirely new ones have arisen which we may reasonably trace to the direct operation of patent monopoly in the security it affords the capitalist for the sale outlay of his money on what otherwise would never excite his attention, and most likely only to be treated as a wild, hopeless peculation. Among these patented inventions we trace the large manufactures of Macintosh cloth, validation of the property of production, exactness in important details in the working of patent property. The vast increase of improvements in husbandry, brewing, dyeling, printing, electro-plating, metallurgy, and other extensive operations, has called into exercise such a demand for scientific and skilled labor, that laboratories form an essential feature of many large establishments to text socuracy of production, exactness in important details, there may be individuals who seriously believe, and turther scientific applications derived from independent of adverse opinions to the manufacture is thus being constantly improved, and scientific recearch materially upypeld and e

ENGLISH GRAIN MARKETS.

THE following extract is from an able and carefully written article in the National American, and is well worthy of attention in Canada:-

Wheat, which was sold in Mark Lane on the 9th of May last at 74s 4d per quarter, was offered on the 26th

Wheat, which was sold in Mark Lane on the 9th of May last at 74s 4d per quarter, was offered on the 26th of July at 62s 9d.

If Great Britain should require (as we expect) forty millions of bushels of wheat, and we supplied forty per cent. of that amount, (which would be a larger proportion than we have done since the famine of 1846, and three-fold more than we shipped last year.) it would afford us a market for about 16,000,000 bushels of wheat. If, for the purpose of our argument we suppose the average price to be 64s a quarter in London, (which by the way is enormously beyond the average of years and higher than the price ruling to-day) it would leave the price of American wheat at just \$2 a bushel in gold, or \$2.20 in currency. From this is to be deducted the cost of freights, commissions, storages, &c., incurred in the transit from the farmer to the consumer, which we suppose can not be estimated at an average less than \$1.25, leaving to the farmer as his net price, say \$1.65 to the bushel, and producing in the aggregate about \$26,000,000 for the entire export of surplus wheat.

We wish to be understood, when we name \$28.0 0,000 as the possible value of our wheat export for the current year, that in doing so we state a much larger amount than we have any idea it will reach. We doubt if it will be half as much, but we wish our estimated the probability of the probability o mate to be entirely within the truth.

SALE OF TIMBER BERTHS.

ZESTERD Y, at the Crown Timber Office, in this City, a sale of timber berths, in the Upper Otta wa territory, was held by Mr. Hector McLean, auctioneer, on behalf of the Crown Lands Department of the Province of Quebec. The attendance was large and the competition spirited, the bonuses paid for some of the berths, as will be seen below, having reached a pretty high figure, and the average bonus per square mile realised about \$19. This bonus is in addition to the annual ground rent and according to conditions of sale is payable at the time the berth is adjudged to the purchaser. The limits sold (nearly all new) cover an area of about 2,000 square mil s and realised the handsome sum of \$88.000 in the shape of bonus. If we were to judge by this sale it is pretty evident that the Quebec Government did not make such sad havoc with the timber business by its new regulations as some newspaper writers recently represented. Of the whole number of berths offered for competition only two or three were withdrawn. The tollowing are the numbers, area and prices of the limits sold, with the names of their respective purchasers: city, a sale of timber berths, in the Upper Otta

On **E**ast Branch River Coulonge. NEW TIMBER BERTHS.

On Head Waters of West Branch River Coulonge.

OUL	Tromen	••••••••••••••••••••••••••••••••
		Waters River Coulonge.
Berth	sq. miles.	. S C.
В	50	J Roach 3,030 00
C	50	Mr. Lauzon 2,250.00
D	50	Mr. Lauzon2,020.00
Ē	50	J Roach 810.00
F	50	do 830.00
Ġ	50	do 910.00
Ĥ	41	do 980.00
]	50	do1,060.00
J	50	do1,600.00
	On Lake K	eepawa and Tributaries.
Nos.	eq miles.	
2	40	George Brighton 800.00
3	20	do 300.00
4	35	D. M. Moore 1,200.00
5	26	do 1,120 00
6	28	Charles Mohr 340.00
ğ	44	Dr Grant 850 00

0	40	Charles mont 040.00
9	44	Dr. Grant 850.00
10	41	do 640.00
11	46	Charles Mohr 740.00
12	40	Dr. Grant 860.00
13	33	do 780 00
14	46	do1,340.00
15	26	E. B. Eddy 800.00
16	27	Mr. Ward 1,000.00
17	29	do 640.00
18	85	do 520,00
19	88	B. McConnell 540.00
21	36	David Mohr 680 00
22	50	James Finley 780.00
23	50	do 770.00
24	50	do1.050.00
25	18	do 440.00
26	46	Rod. Ryan 710.00
27	26	do 240 (0
28	26	do 220.00
29	50	Mr. Thistle 420.00
80	50	Charles Molr 530 00
81	50	do 520.00
82	50	do 810 00
88	50	do 420 00
45	59	Rod. Ryan 450.00
46	50	Edward Griffin 430.00
47	50	do 410.00
	On East S	lide Lake Temi cam ng.

BRANDT MINING COMPANY.—Yesterday Mr. Cyrus Nixon, of Paris, and Mr. John Johnson, Manager of this Company, cailed on us and exhibited specimens of quartz from their property, situated lot No. 19, in the lat Concession of Madoc The Company was organized last winter, and operations were commenced last spring. The stock is principally held in Paris, Grimsby, and St. George. They have already sunk three shafts; the specimens shown are from a depth of about sixteen feet. Measures have been taken to obtain a charter, which, it is expected, will at once be issued, and a crushing mill will be put up and ready for next summer's operations. Judging from the specimens, the prospects are good for the Company. The quartz exhibited is very rich in free gold—and and there can be no question that if any quantity of quartz like the specimens shown us can be had, the problem as to the paying qualities of the Madoc mining territory is solved satisfactorily. Mr Johnson has also with him a specimen of rock taken from the Richardson mine that quite equals the best specimens we have seen from Nova Scotia. It is matter of sincere congratulation that the enterprise that has so far induced these large expenditures, is likely to be retator.

Wooden Railways.—The Montreal Gazette says: A Quebec contemporary has reason to believe that the Local Government has ceded 1,200 acres of land to the Gosford Railway Company, at the rate of 30c per acre, and the company has therefore undertaken to lay down firewood in Quebec at \$2.50 to \$3 per cord. The enterprise naturally attracts a good deal of attention; and we would not be surprised if a company, on the same basis and with the same object, was got up in this city. The country to the northward contains an abundance of firewood, which could readily be brought to this market and sold low, but yet remunerative prices, if access could be had to it by means of a cheap wooden railway on the plan recently set forth in these columns.

RAILEOAD EXTENSION.—The American Railroad Journal learns that arrangements are nearly completed for commencing the extension of the White Mountain Railroad from Littleton to Lancaster, and ultimately to the Grand Trunk line at Northumberland. The first section of the new road to be constructed will run from Littleton to the "Wing Road" in Bethleher, a distance of 61 miles.

COMMUNICATION BETWEEN RED RIVER AND LAKE SUPERIOR.

A MONG the blue books recently issued by the Parliamentary printers, is one containing a report upon the best line of communication to be opened up between the Red River and Lake Superior. by Mr. S. J. Dawson. C. E. It is based upon knowledge acquired during 1857-8 and 1858-9, while superintending the survey there, and embedies and condenses a great part of the information contained in his reports made to the Canadian Government at the time. It is accompanied by a map prepared in the Crown Lands Department of Ontario. It is of especial interest just now. He divides the route into four parts or sections, beginning at the eastern end. 1. Embraces the region to the east of the water shed or height of land, which he calls the Lake Superior section. 2. From the height of land to Fort Frances. on Rainy Lake, which he calls the Lake Superior section. 3. The navigable reach from Fort Frances to the North-west angle of the Lake of the Woods, which he names after that fort. In surveying section 1, he found that the rigeon River route, besides starting in the United States, the canal route forms the boundary line for 150 miles. "The ascent from Lake Superior is very rapid and steep, and at the height of land, and far to the westward thereof, the route leads over a very high and broken region. The lakes at the summit of the water shed are 1,058 feet above the level of the lake, and even at that elevation are embosomed in rocky hills." The supply of water was inadequate to open navigation. This route was, therefore, absundance. Next the Kaministiquia route to Dog Lake was surveyed—the old cance route of the North-west and Hudson's Bay Companies. The supply of water was ample, and the elevation of the land 200 feet less than by the Pigeon This route was, therefore, absundance. The riputative route is practicable for roads. Dog Lake is about 24 miles from Lake Superior, and westward from it, its chief tributary, Dog River, can be made navigable mach particable in the determined was how to get from one lake to the other. The K MONG the blue books recently issued by the Par A liamentary printers, is one containing a report