a return would damage irretrievably both the mine and the mill! A consultation was held, and it was agreed that the proprietors of the mine should procure a sufficient quantity of gold to make up about \$20 to the ton, and that D. S. T. & Co. should stamp the same, and enter that amount in their returns. The secret was kept for some time, and the mine was sold to certain parties in Belleville; but some hisunderstanding having occurred among the parties concerned, the piece of petty rascality which had been perpetrated came to light, amid their mutual recriminations. Just at this time too, came the letters from Dr. Hunt, completely confirming the previous assay, and shewing that under proper mana genent, the mine was likely to turn out an exceedingly rich and profitable concern; so that the perpetrators had the satisfaction of reflecting, that their imposture was as needless as it was criminal. ture was as needless as it was criminal.

ture was as needless as it was criminal.

This affair cannot of course affect the value of the nane in question, after the testimody of Dr. Hunt shews that the smallness of the return must have been due to the mill not being adapted to secure only the free gold, and not the silver, or the gold contained and perhaps mineralized in the ore, but it will undoubtedly have a very prejudicial effect in destroying confidence in the mill returns, and rendering them as unreliable as most of the assays hitherto made have proved.

made have proved.

made have proved.

In dealing with the mining laws, our legislature might with advantage inflict a heavy penalty, not only a pecuniary fine, but a term of imprisonment with hard labour, upon those who render bogus returns, and commit the crime of perjury to float them off; and it would do no harm if the provision were extended so as to embrace dishonest assayers.

A STRAM STAMP QUARTZ CRUSHER. We had the opportunity a few days since, of examining a stamping mill constructed according to "James & Condict's Patent," with the latest improvements, at the foundry of Messrs. Dickey, Neil & Co., of this city. This mill is very neat, compact and light, and seems well suited for the purpose intended. It was patented by C. R. James and N. W. Condict, junr., of New Jersey, ou the 19th June, 1866, and has since been used, we believe, more or less in the statest according districts of the United States. been used, we believe, more or less in the principal mining districts of the United States. The chief objections against status The chief objections against stamps, namely the great weight of metal, the heavy cumbers one frame work, and slowness of novement, seem to be, in a very great degree, o ercomelia this mill. Its total weight is about 1,500 lbs. There are two stamps which are attached to pistons passing through two perpendicular cylinders. sing through two perpendicular cylinders, Each pair of cylinders and stamps makes a complete battery, and may be constructed to any required size, even to stamps weighing a ton each. These stamps work in a kind of mortar which is filled with water, and into which the quartz, previously broken into biases. ton each. These stamps work in a kind of mortar which is filled with water, and into which the quartz, previously broken into pieces about the size of a man's fist, is fed. Inder the stamps which strike alternately, and with any desired speed from 40 to 300 blows per minute, the quartz is reduced as fine as dust, so that it can pass with the water through a kind of seive which contains 60 meshes or holes to the inch. Against this serve the water is splashed by the motion of the stamp, and gradually escapes through it with a portion of the quartz held in solution. The water after thus making its escape, passes through the analgamating process where the gold or silver is separated, the operation of which it is not our object to describe here. Probably the most important feature of this mill is the inguious way in which the steam is applied to raise the weight of the stamp and overcome the friction met with in returning it to the apparatual of the calling of the control of the stamp and overcome the friction met with in returning it to the apparatual of the calling of the rase the weight of the stamp and overcome the friction met with in returning it to the spward end of the cylinder. This is accomplished by a steam drum or reservoir, connected by means of a flexible hose or pipe with the lower end of the cylinders, and supplied with live steam from the boiler in whatever quantity is found to be requisite to recomplish the draws object. to be requisite to accomplish the above object. By this means a lower valve to the cylinders is entirely dispensed with, the working of which was always one of the greatest difficulties in the management of steam stamp mills. The blow of a steam stamp is always variable, de-pending upon the quantity of ore introduced into the mortar or stamp box, and the wearing

away of the stamp head or die on which the ore is crushed. By means, therefore, of the improvement just noticed, when steam is ad-mitted to one of the cylinders it drives the stamp home until the force is expended on the ore or stamp-die below, and is held there until relieved by the action of the other stamp rising and reversing the valve. The motion of the and reversing the valve. The motion of the stamp is regulated by a safety valve attached to the reservoir; the lower the pressure on the reservoir, the slower the movement of the stamps, and eice versa. In estimating the force of the blow of these stamps, the gravity or weight is not counted, as it is balanced by a steam cushion under the piston head, which counterbalances the weight; the direct pressure of steam from the boiler and the momentum of the stamp give the measure of the force de-livered by each blow, less the number of pounds pressure required to overcome the friction of the upward stroke of the piston. No engine is used, the steam being applied directly from the

The machine is put up on a strong wooden frame, very simple in its construction, and which is so arranged as to prevent the jar or vibration of the blow being communicated to the working parts of the machine.

It will be seen from the foregoing brief description, that several important advantages are claimed for this machine over others, which entitle it, at least, to a fair trial. As it is expected to be in operation in a few days, we shall have occasion again to allude to it. After seeing it in actual operation, we shall be prepared to express a more decided opinion as to its merits, like vork. Our townsmen, Messrs. Dickey, Neill & Co., deserve credit for the spirit with which they have taken hold of the enterprise, and prepared themselves to supply the demand which must arise, if our mining territory proves to be as important as it is now believed to be.

TORONTO MINING EXCHANGE. - The committee appointed by the Mining Exchange have forwarded a petition to the Government praying that the Act lately passed by the Ontario Legislature be not enforced until the next Session of Parliament. The request is based on the following reasons: "That up to the time of the passing of the Act referred to, but little had been done towards the development of the mines, either in Madoc or Algona, and that the delay asked for would put the Government in receiving of facts relating to the productive. sion of facts relating to the productiveness of the mines, and aid the Government in forming a policy with regard to the mines which may receive the unanimous support of the Province." The memorial is signed as follows: Josias Bray, President, William Kersteman, Hugh P. Saviguy, T. D. Ledyard, Hugh Miller, William Wharin.

Mailway Mens.

GREAT WESTERN RAILWAY.	Traffic	for th
1. an line March 6, 1868.		
Passengers	\$16,172	89
Passengers	33,876	39
Freight and live stock		84
Mails and sundries	3,210	
m - 1	\$53,299	12
Total	270 978	19
Corresponding week, 1867	\$10,210	12
	495 979	00
Decrease	quoser	•
NORTHERN RAILWAY Tra	ffic receip	pts f
week ending 14th March, 1868		
Passengers	\$2,472	89
rassengers	10 45275	66
Freight		
Mails and sundries	201	
Total Receipts for week,	\$6,160	18
Total Receipts for week.	410 179	50
Corresponding week, 1867	\$10,172	99

St. Lawrence Glass Company.—A general meeting of the shareholders of the St. Lawrence Glass Company was held at the office of the company, 388 St. Paul street, when the following gentlemen were elected Directors for the ensuing year:—William Workman, A. M. Delisle, Peter Redpath, A. McK. Cochrane, and as Simpson.

Decrease..

......... \$4,012 51

Mectings.

UNION PERMANENT BUILDING AND SAV-INGS SOCIETY.—The annual meeting of the stockholders of this Society took place on the 16th inst., when the following gentlemen were elected as Directors for the year 1868:

Francis Richardson, Esquire Thomas Henning, Arthur Lepper, Isaac C. Gilmor 60 66 George Goulding, J. C. Fitch, Alex. Henderson,

From the statement submitted it appeared that the increase in the amount of stock paid up during the past year was \$30,664 making the present paid up capital \$92,-219. An addition of \$2,000 was made to the Reserve Fund out of the past years profits, making the total reserve \$3,183 43. was made to The present value of Loans on Mortgage is \$113.589 74. The business of the or is correctly indicated by the following statement:

Amount received on deposit during the year : \$46.285 40
Amount repaid on deposits do do 43.082 35
Increase in deposits since last year's 4,362 10 statement. 4,362 10
Increase in Paid up stock de do 30,664 07
Amount invested on mortgage during the year 61,005 09
Amount neceived in payment of mort-

gages; Two semisannual dividends at the rate of 10 per cent, per annum have been declared, viz.. on the 1st Sept., 1867, and 1st March,

At a subsequent meeting of the Directors for the election of office bearers, and other business. Francis Richardson, Esq., was elected President, and Arthur Lepper, Esq., Vice-President for the ensuing year.

FIRE RECORD.—Montreal, March 21st.—Jordan's building on St. Paul st., occupied as a wine and spirit store, by Thos. Coghlan. At explosion occurred during the progress of the fire, killing two firemen, Scott and Thompson. Damage to property estimated at \$50,000. Building insured for \$2,000 in the Royal, and for further amount in other offices. Contants owned by Coghlan, covered by \$2,000 in the Royal, and \$1,000 in the Queen. The upper flat was occupied by Mr. Rolland, but no particulars are given as to loss or insurance. Cause unknown.

unknown. Strathroy March 20—A fire originated in the grocery store of A. Johnson & Cc., and did much dimage. The following particulars are furnished: Isaac Moore, furniture insured for \$600 in the Provincial; no insurance on barn. Hotel éwned by McKellar & Strathy, covered by \$1,400 in the Home of New Haven. Thomas Carre, insured in the Provincial for \$1,200; partial loss. A Johnson & Co., stock insured in the Commercial Union for \$1,000, Western \$500 and Home \$500; building insured for in the Commercial Union for \$1,000, Western \$500 and Home \$500; building insured for \$800 in Commercial Union. A Meekinson, fruit store, insured for \$500 in Niagara Mutual, D. Dwyer, boot and shoe store, stock insured in Etna of Dublin for \$400, and in the Niagara Mutual for \$400. F. Hilton boots and shoes, stock insured in Etna of Dublin for \$500. P. O'Dwyer, greecries, stock insured in Etna for \$900, and \$800 in Niagara Mutual. John A. Scoon, building insured in Home for \$450, nothing on furniture. A. Goodwin, groceries, A. Scoon, building insured in Home for \$450, nothing on furniture. A. Goodwin, groceries, stock insured in Commercial and \$500 in Niagara Mutual W. H. Stewart, confectioner, no insurance. G. Orchard, \$600 on stock and \$600 on building in Royal, and \$600 on stock and \$600 on building in Royal, and \$600 on stock and \$600 on building in Western. James Wright, boots and shoes, stock insured in Provincial for \$1,500; loss partial. Moore's Hotel, property of McKellar and Strathy, fully covered by insurance. Johnson & Co., store owned by & Johnson, loss about \$400 on store over insurance in Commercial Union. D. Dwyer and A. Meckinson's stores, owned by A. Meck