Tesselated pavements with other and interesting specimens of manufactures are acknowledged. The library is entirely free for consultation, and is said to be more readily accessible than any other free library in the Province.

IMPROVEMENT FUND.

The "Improvement Fund" for 1859, accruing to the several Municipalities in Upper Canada, to be expended in Roads and Bridges is now in course of distribution.

PATENT OFFICE.

The business of the Patent Office is steadily increasing. During the past year, the fees received for Patents of Invention amounting to \$3,020 00, those for assignments, copies of specifications, and registration of Trade Marks to \$194 30, amounting together to the sum of \$3,214 00, which has been paid to the credit of the Honorable the Receiver General. This department of the Bureau has now become self supporting.

The Royal Patent Commissioners in London, continue to present to the Bureau the specifications and engravings of patents issued in the United Kingdom They now amount to 500

volumes.

Since the removal of the Government to Quebec, 443 models have been received by the

Patent Office.

It is much to be regretted that want of accom modation has hitherto deprived the public in a great measure of the advantages which they would otherwise derive from the museum of models and valuable library of books. The models should be classified, numbered, arranged, and a descriptive catalogue should be prepared. The room might then be open to the public, say daily during the session of Parliament, and per haps twice or thrice a week during the remainder of the year.

In conclusion the undersigned alludes with the deepest regret to the loss which this department has sustained in the decease, during the past year, of Mr. W. Hutton, for many years the

active Secretary of the Bureau.

The whole humbly submitted.

N. F. Belleau, Minister of Agriculture.

Bureau of Agriculture, Emigration, and Statistics, Quebec. April 1862.

The Preparation of Food for Cattle

The directors of the Royal Agricultural Society of England have recently introduced the practice at their monthly meetings of discussing agricultural subjects. In the *Irish Farmer's Gazette* of the 17th ultimo, we find the following condensed report on the interesting and im-

portant subject of "preparing, mixing, 2" cooking of food for cattle." Mr. Frere, the editor of the society's journal, introduced it the meeting, and based his observations on Pro fessor Voelcker's paper on the composition at nutritive value of straw, which appeared in the last part of the Society's Journal; on Mr. Lawes' reports of his experiments conducted c the Dake of Bedford's estate; and, finally, c "his own small experience in cattle feeding la autumn." Mr. Lawes stated, however, that it results of the experiments which he had mal and to which Mr. Frere alluded, could not be taken as a standard in so far as related to the comparative merits of cooked and dry for having been conducted for another purpose all gether—namely to ascertain the amount a composition of the dung of cattle, and man particularly with reference to the loss of ann; nia. We may, therefore, set aside those of Mr. Frere's remarks which were based on Mr. Laws report, as being inapplicable to the subject to der consideration, and pass on to some of E subsequent cbs_rvations.

He ailuded to the practice of giving cattlefar a bait of meal, then a bait of turnips, and gon; varying the food at diefferent parts of the day, informing the meeting that the most operienced feeders he had met with considerable best to mix roots, cake, and meal, giving the same mixture at each feeding time. Referring to his own experence in cattle feeding last parts.

he stated that he had been

"Anxious to try the effect of cooking in the case of 10 beasts, 21bs of bean meal holleds poured over the chaff was to stand for 24 hour 21bs of cake were then added to this mutual and it was served up next day. Of these l beasts one obstinately refused to eat the in ture. It was a white bull with a black not and was decided the worst beast of the lot. stoutly did it reject the mixture that it work eat the straw turned out from the cart horse rather than this prepared food. It was the ordered to have bean-meal unboiled, the mo being still mixed with straw, which was mi tened the day before, and a small quantity malt combs, which was also moistened on the previous day. At this moment that which w the worst beast of the 10 was indubitably the best: it weighed over 8 stones more those which were of the same size when the came in, and I cwt. more in live weight this the smaller animals did when they came in. short, it weighed 56lbs. more than any of the other beasts in the lot. He mentioned the case to Professor Voelcker, who, in his rep said .- The incident you mention with respe to your black nosed bullock is carious. I do like to boil pea-meal, or to pour it afterward over roots and chaff. Substances so rich nitrogenized matters as peas and bean meals very apt to give rise to putrefaction, instead