charity which suffers long and is kind, which envieth not, which vaunteth not itself, which is not puffed up. Let us leave to political journals the bespattering of each other and the coarse personalities of angry disputation, and, patient with differences in opinion and modest in self assertion, remember the words of Colton:-" We are more inclined to hate one another for points on which we differ, than to love one another for points on which we agree. The reason perhaps is this; when we find others that agree with us, we seldom trouble ourselves to confirm that agreement; but when we chance on those that differ with us, we are zealous both to convince and to convert them. Our pride is hurt by the failure, and disappointed pride engenders hatred."

## GOLD IN NEW BRUNSWICK.

A few days ago we received a visit from Mr. Thomas W Langstaff, of Woodstock, Carleton county, New Brunswick, who exhibited some specimens of gold obtained in that county from washings of alluvial deposits with specimens also of gold-bearing quartz, apparently very rich, whether examined by the naked eye or by means of a microscope. None of it has yet been assayed to test its actual value. The specimens compare favorably with those we have seen from California.

Last fall Mr. Langstaff and others associated with him, hav ing discovered what they considered unmistakable indications of gold, and having purchased from the provincial government over thirty square miles of territory, made a test of one portion of the purchased territory. All of it is on the east ern branches of the St. Johns river in three counties, those of Victoria, Northumberland, and Carleton. The test was made in the latter county, about twenty-seven miles from Woodstock, on the Shicktehauk, a branch of the St. Johns. A party, of whom an experienced California miner was one, proceeded to the locality selected for the experiment, where a sluiceway made of boards, being twelve inches in width by nine inches in depth and about two hundred feet long, was erected "Riffles" had been fitted into the sluice at its lower end and about three cubic yards of sand and gravel were shoveled into the upper end. At the lower end which was between twenty and thirty feet below the upper, there had been placed a small quantity of quicksilver for collecting the minute particles of gold which might otherwise have been carried off with the sand by the force of the current. With these rude appliances there was produced nearly ten dollars' worth of gold, which we have seen. This gives a yield of over three dollars per cubic yard of earth, dug on the margin of the stream, the workmen not even wetting their feet. Beside this, a nugget was picked up worth some four dollars. One of the party, an old Pike's Peak miner, "panned" out in fifteen minutes a handsome show of gold, and declared that the deposit fully equaled any he had seen in his experience. The next day a boy of fourteen washed out his day's diggings, carrying home the commingled sand and gold and finishing the panning at home, which yielded over three dollars in pure gold.

Yet it is believed by experts who have examined and tested this locality on the Shicktehauk and others comprised in the purchase that the former does not present so favorable indications as those on the Muniac and Serpentine.

All this country is well wooded, the soil is fertile, and the streams never failing, in many cases affording excellent water power. Furtherinformation in regard to these depos its may be obtained by those who feel an interest in this matter by addressing T. W. Langstaff, Woodstock, N. B. or J. H. Lord, Box 773, New York city.

## NEW PATENT BILL IN CANADA.

No little sensation and indignation is manifested in New Brunswick by an effort of the new Canadian Parliament to enact a new patent law, less liberal in respect to non-residents if possible than the existing one. The following extracts from an editorial in the Montreal Evening Telegraph give some facts relative to the new bill, which, if passed, will be one of the most illiberal and incongruous laws ever enacted. We are assured by private letters, that the bill of food. Dr. Letheby early observes that all foods are decannot pass without such amendment as will allow the rived from the vegetable kingdom. In other words, "All citizens of New Brunswick the rights they now possess to flesh is grass," "for no animal has the power of associating grant patents to non-residents, and to obtain patents in the mineral elements and forming them into food." It would be States on the same terms as citizens of other countries which the proposed law would abrogate.

The writer in the Telegraph says of the proposed bill: "It contains provisions which are certain to embitter the rela- turnips, and oilcake, to the construction of that beef. Whether tions between the Maritime Provinces and ourselves, and the laboratory may eventually manage to manufacture meat reality as well as in name. The object of the present bill is, mal." Dr. Letheby begins with the value of vegetable food. no doubt, to enable the public to benefit by the inventions of Wheat stands first in Europe. The attempts to restore the foreigners, among whom, from the very terms of its provisions, are included all British subjects not residing in the Provinces, as no inventor can take out a patent here who has believe that white bread is more easily digested than brown not resided in Canada for at least twelve months, and no one bread. Bran has frequently a very irritating effect on the can take out a patent at all unless he is the bona fide in-|intestinal organs. In practice, 100 lbs. of flour will make ventor.

"That the law, as proposed, will have a prejudicial effect on all applying. In that case the charge is \$35 in greenbacks. the charge for issuing a patent is \$500. By the law in New Brunswick, no difference is made between residents or non-hill." The value of barley and rye bread we need not stop

throw the closk of charity over each others' failings; the comply with the rules of the Patent Office as to his right to the poor abandon their use as soon as they can get wheat the invention. Inventors in New Brunswick have been heretofore, therefore, entitled to patents in the United States at the lowest rate. When this bill passes, they will be at once cut off from this privilege.

"But, besides this, the patents issued for the separate Provinces under the old law are to cover only the same extent of territory as that for which they were issued. By one section, it is provided that every patentee must, under a penalty of \$100 or two months imprisonment, have on the article pas ented by him, the word "Patented" and the year in which it was granted; and by another section, any person having on an article not patented, any word representing that it has been so, subjects himself to a fine of \$200 or three months imprisonment. It is plain that if these two sections are enforced a patentee is on the horns of a dilemma. If he keep the patented articles for sale, without the mark, in the Province in which the patent is granted, he subjects himself to a fine of \$100 or incarceration for two months. If, on the other hand, he send out of his own to one of the other Provinces to which his patent does not extend, arti les marked as patented, he finds himself liable to a fine of \$200, or three months in jail. That this is the absurd position the proposed law will bring us to, there can be no doubt, as any one may satis/y himself by examining the bill. There are other defects which are evident on a mere cursory examination. For instance, by Section 38, any one may file a caveat who has not vet perfected his invention, and is afraid of his idea being made use of by others. And this provision is only fair. But the caveat appears to have an effect in perpetuity, as no time is given in which it shall lapse; and it does not appear to be contemplated that any intimation shall be given to the applicant filing a caveat, when any one else applies for a patent to cover an invention of the same kind as that to guard which the caveat is filed. Without furthur discussing details, it is sufficient that the whole principle of the bill is false, and will work most mischievously. Canada stands alone in this prohibitive policy, which will not only prevent Canadians from reaping the advantage of their own inventive faculties, but will also throw the manufacture of the most important patents into the hands of others; as where expensive models and machinery are required, no man will be foolish enough to invest in them, at the risk of losing the whole fruits of his labor, even although he does obtain the invention by the simple method of robbery, since every one else may plunder him."

[P. S. We are happy to learn through Mr. Charles Legge, just as we go to press, that the proposed bill has been withdrawn, and that no new one will be presented during the sitting of this Parliament, so the old laws will remain in force another year. In the meantime, we hope with our correspondent, that a bill will be framed which will meet the ends desired. Patents will continue to be issued to American citizens in New Brunswick, as heretofore, on liberal terms. Persons desiring patents in that Province can obtain all information respecting the cost and other requirements by addressing this office.-EDS.

## LECTURE ON FOOD.

The lectures on Food which have been delivered by Dr Letheby, at the Society of Arts, are a valuable and perman ent contribution to the literature of Europe on a very important subject. In noticing these lectures we shall confine our condensed extracts to those passages which every one can understand, taking it for granted that these competent to follow the scientific arguments will consult the original reports, either in the medical press, where the lectures were first published, or in the volume which Dr. Letheby will, no doubt, do the English-speaking world the favor of publishing.

Tables have been more than once issued, showing the pro portions of different food required to yield a certain number of grains of nitrogen, or to show the nutritive value of certain foods; but these, although very proper subjects for the investigation of men of science, are of very little value in a popular sense-so much depends on various modifying agencies, on cookery, powers of digestion, climate and admixture a curious question to raise to a party which had just consumed a prime sirloin—how much guano, superphosphate, and farmyard manure had gone, by the intermediation of grass. hav. will by no means tend to remove the difficulties of the position is a question which we have not yet commenced to solve. of those who desire to see the Legislative Act of Union one in "Man (at present) is a destructive, not a constructive aniuse of more bran in flour have not been successful, and it is not at all certain that they ought to be. At any rate, navvies from 133 to 137 lbs. of bread; so that a sack of 286 lbs. should yield ninety-five 4 lb. loaves. The baker increases this quanthe relations between us and the Maritime Provinces, must tity by hardening the gluten with alum, or with 3 lbs. or 4 be apparent to every one who knows the facts of the case. 1 lbs. of rice, which, boiled to a gummy mess, will make the In the United States, patents are issued on the same terms to sack of flour yield one hundred 4 lb. loaves. Scotch oatmeal citizens and foreigners, provided that, in the case of the latter, is more nutritious than English; but oatmeal is not so the country to which they belong grants equal privileges to economical a food as wheat flour. In 1695, before tea and coffee were common drinks, it appears, from an advertisement But if there are prohibitory laws, as is the case with us, then quoted in the lectures, that there was a large consumption of water gruel "at the Marine Coffee House, Birchin Lane, Corn-

bread. Maize, or Indian corn, on the other hand, has been established in Ireland as a staple of food ever since the potato famine. Yet, although rich in nourishing matter, it will not make good bread. When deprived of its gluten and harsh flavor by means of a weak solution of caustic soda, and then dried, it forms the expensive food called "corn flour." Peas, beans, and lentils are very nutritious where they can be digested. Nothing but the most prolonged cooking will serve to help in this particular. They are deficient in carbonaceous constituents, and therefore invariably eaten with fat. Thus beans and bacon, and butter with beans, are inseparable in this country, while in the backwoods of Canada, haricot beans boiled and then fried with salt pork are the standing dish of the wood cutters. Potatoes, according to their price, are the most economical food, but the nutritive value is not great. They are deficient in fat, and should be accompanied with dripping, or better still with milk, if meat or fish cannot be had. On potatoes and milk a family of children can be reared well. Potatoes are best cooked in their skins, for the waste is then only about three per cent, or half an ounce in a pound, whereas if they are peeled, it is three ounces in a pound. Mealy potatoes are the most digestible; late in the season, when they are waxy, they are best cooked by stewing. Potatoes are one of the best anti-scorbutics, and are therefore used fresb or preserved in all sea going vessels. There is little nutriment in the garden vegetables in common use. They are much less nutritious than the potato, and they are chiefly valuable for their antiscorbutic properties, for their quality of flavoring insipid food, and diluting strong ones. Cheese theoretically ranks high for nutritive power, being especially rich in nitrogenous matter, but it is extremely difficult to digest, and cannot therefore be taken in large

Almost all Europeans eat meat if they can get it. Although during the Irish famine it was found that the people preferred stirabout to meat soup, when Irishmen settled in England or America they became as great meat eaters as their neighbors. The amount of bone in beef is rarely less than 8 per cent; in the neck and brisket it is about 10 per cent, and in the shins and legs of beef it amounts to one third or even one half of the total weight. The most economical pieces are the round and thick flank, then, the brisket and sticking-piece. Horseflesh, Dr. Letheby says, is considered on the Continent superior to beef: and no doubt a steak from a fat horse is better than one from a lean milch cow or patriarchal bullock. Good bacon should not lose more than ten to fifteen per cent in in cooking. Experience has taught what science has proved -viz., that the large amount of carbonaceous matter in bacon makes it the best addition to substances rich in nitrogen. such as eggs, veal, poultry, liver, beans, and peas. Dr. Letheby remarks that "fish is not a favorite article of diet with the laboring classes, unless it is salted or smoked, perhaps because it does not easily satisfy hunger and is quickly digested;" but it is more probable that the cause rests in the necessity of more elaborate cooking and appliances for certain kinds of fish. All fish are in their best condition at the time of the ripening of the milt and roe; they are fatter, and have a better flavor. Eggscontain about twenty-six per cent of solid matter, of which fourteen percent is nitrogenous and ten and a half carbonaceous, or fatty: the yolk contains the fat, while the white is richest in nitrogen. Eggs being very deficient in carbonaceous matter, go well with fat bacon, oil in salid and farinaceous food. Fat in some shape is universally consumed. Cocoa and chocolate owe their chief value to the fat they contain; Cocoa is composed of fifty per cent of fat. Of liquid articles of diet, beer and porter stand first in nutritive value. It is estimated that for the daily supply of London city there are distributed about 4.200 tuns of fish. over 4,000 sheep, nearly 700 oxen, about 90 calves, 4,000 pigs, (including bacon ond hams), 5,000 fowls, a million oysters, and nearly a million quartern loaves.

In Dr. Letheby's second lecture he refers to the artificial means of encouraging digestion. The functions of saliva are to lubricate the food for deglutition, to carry oxygen into the stomach, and to furnish a solvent for starch and tender cellulose. It has no chemical action on fat, or fibrin, or albuminous bodies. An artificial saliva may be obtained. Liebig's extract of malt is an example of this; also Mr. Morson's saccharated wheat phosphates. Both of these are aids to the digestion of farinaceous food. Pepsin is artificially prepared by several persons to assist digestion, by a preparation, as it were of gastric juice. The strongest pepsin is obtained from young healthy pigs, which are kept hungry, and are then excited by savory food, which they are not allowed to eat; while the influence of it is strong upon them, and the secretions are pouring out in expectation of the meal, the animals are instantaneously killed by being pitted. Pepsin, like disastase, is rendered inert by a temperature of from 120° to 130° Fah., and therefore hot drinks after a meal are hurtful. Cooking has an enormous influence on the digestibility of food. We cannot believe that roast mutton is less easily digested than ox liver or than goose or beef. It seems that of starchy substances, roast potatoes are more easily digested than boiled. Dr. Letheby sums the aids to digestion thus: First, proper selection of food, according to the taste and digestive powers of the individual; secondly, proper treatment as regards cooking, flavoring, and serving it; thirdly proper variations of it, both as to its nature and treatment, so that the appetite may not fail; fourthly, exercise, warmth, and a genial disposition. The last condition shows that those who give elaborate dinners should take care to provide one or more amusing guests. We have said enough to draw attention to these lectures, which condense in a popular manner, the latest scientific investigations in connection with residents; any one is entitled to take out a patent who can to discuss. Philosophers recommend them to the poor, but the subject of food.—London Journal of Gas Lighting.