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Experiments with Blue Lights.

light on every leaf within. In April he proceeded to plant uniterial cuttings of vines of twenty varieties, and soon after, th a growth began and progressed so rapidly as to attract general attention. In September Mr. R. Buist, a noted, horticulturist, on entering the grapery, was lost in amaze ever since.

than when exposed to simple sunlight alone." It appears, from some of the experiments recorded, that it is immaterial through what medium the blue or violet light is transmitted. In one case Mr. Buist simply painted the maide of his panes a light blue, with the same effect. In more noteworthy, was that of a Philadelphia physician's the influence of the blue light." Such is the testimony one has tested the matter for himself.

Dangers of Spontaneous Combustion.

132 deg. I ah. Castor oil, under like or cumstances, is very, whonly mean, and a public meeting called for the purpose, of fruit presses at down and open. It bears heavily but

slow, and at the end of two days, waste saturated with it have unanimously arranged to raise £25,000 for the sole Toronto.

| Deling shadly the ligher olclines, have a remarkable energy the experiment, and we may uncrease expect to near with in presenting exilition, through giving a cert did prote in a very short came of 500 tons of frozen fresh meat being tion from the air. Mixtures of these oils with 20 per on its way from solvey to London. Should it succeed ent of ripe oil gave no indication of heat whatever at fully, it requires may place to fortell what a real blessing 170 des. Tah., and even seal oil, with its own bulk of it will prove to the whole of the lower and middle classes mineral oil added to it, did not at 135 deg reach a tem at home. perature sufficient to char cotton. As a general rule, it may be laid down that spontaneous combustion of refuse, soaked with vegetable or animal oils, will occur whenever the conditions are such that a temperature of at least 175 located on the bank of the Lachme Canal, near Wellington

Canadian Horses for England.

Trozen Meat from Australia to Great Britain.

The growth of meat in Australia is so far in excess of been restored to health, the medium was the blue drapery boil down the surplus, or else "tin" and export it as pre-Gainsborough of the American service. And a third, still served meat. Although both these processes have been wife, whose case had been despaired of by the medical dice in the old country against the meat so prepared, and fraternity, but who "rapidly and entirely recovered under particularly so among the classes for whom, from its cheapness, it is thought to be best adapted. This being the afforded regarding this new theory, which, however, will case, and the matter being of too great moment to colonial be received with an ample admixture of caution until each interest to be allowed to languish, a Mr. T. S. Mort has

Slow, and at the end of two days, waste saturated with it.

GLOBE is entirely different from that which appears in Tall only became a mass of charred cotton. Laid oil produces purpose of sending a trial shipment to England. Mr. rapid combustion in about four hours. Sperm oil, on the good address, steady, and pushing, to canvass for the Canada Farmer. Address, stating employment, previous engagements, age and references, Publishers of the Canada Farmer, Toronto.

Slow, and at the end of two days, waste saturated with it have unanimously arranged to raise 220,000 for the sone only became a mass of charred cotton. Laid oil produces purpose of sending a trial shipment to England. Mr. Mort foregoes all claims for patent right profit, and also other hand, refuses even to cause a charring of the waste. Scal oil, of a strong fish odour not unlike sperm, has produced a trial shipment to England. Mr. Mort foregoes all claims for patent right profit, and also arranges to go personally in charge, so that in the event of their arising some unforescend difficulty, his inventive genius may be at hand to promptly remedy or remove it. Over their as a last stated. The heavy oils from coal and slide, £18,000 has been already collected towards carrying out being chiefly the higher ofetines, have a remarkable effect in a very short case of 500 tons of frozen fresh meat being

Canadian Canned Meat.

Experiments with Blue Lights.

The second hours Cotton will burst into Bludge. Province of Quebes, have recently been visited by Blue already recointed General Pleasanton's theory then, work, on the other hand, becomes a black of members of the Montreal city council, who furnish some garding the increase of temperature in rooms and graining the extent of the establishment. regarding the increase of temperature in rooms and graperies, by the use of alternate blue and white lights. Furthere experiments conducted by him and based upon the
same theory are both curious and interesting. He pretable or animal oil (other than sperm) is largely used,
therefore whether for hybricating machinary or colling tis. pared an experimental grapery in 1861, and, at a venture, adopted every eighth row of glass on the roof to be violet such at wall seem to be a safe precention to add to it as colored, alternating the rows on opposite sides, so that large a proportion of mineral oil rs possible, if such additional municating with a large sewer by which all refuse is the sun in its daily course should cast a beam of violet time in he made without interfering with the use of the carried off. Here five men are a last a water in the material of the carried off. Here five men are a last a water in the material of the carried off. in skimming and dressing meat. On this occasion an ammal was despatched in 13 seconds. From the slaughterhouse the dressed carcase is transported, by means of a The suggestion, first breached by the Canada Falimen, hoist, to the "boning room. This latter is about 50 feet horticulturist, on entering the grapery, was lost in amaze as early as April hist year, relative to the raising of Canar square, and affords employment to from 30 to 50 men, ment at what he saw, and said that, although he had diam horses for England, has, we are glad to observe, not who, ranged around five tables, extract all the bones. The visited some of the best vineries and conservatories in ling been without effect. By recent English advices we learn average quantity of meat "boned" per day is 15,000 land and Scotland, in the course of an experience extend that a mader of animals purchased in the neighborhood pounds. After the meat has been boned and carefully ing over four years, he had never seen such a growth be of Taratto and Montreal, arrived in London last mouth channel, it is taken to the "bath house," about 30 feet force. On measuring some of the vines, he found them to be the Dominion I are. The cost of transit was \$50 a head square, and boiled for two hours in two pound tin cans, be 15 feet in length, and are just in digneter at the discount. be 45 feet in length, and an inch in diameter at the district from Montreal. The average price at which they were which are arranged in iron racks or chadles, 24 in each tance of one foot above the ground. In subsequent years in a lit here was \$120, and in England they sold readly at rack, and deposited in one or other of five different baths, the same remarkable growth was exhibited, the vines con from £55 to £60, (\$275 to \$300). One fine upstanding bay each capable of holding 550 cans. After boiling for the tinning to bear large crops of fruit without intermission hors, which est in Toronto \$102, was purchas I for time specified, the cans are removed and their "brongues" a gentle man's brougham for \$315. It is further stated, as (small soldered spaces in the top) opened to let out the air. The General next proceeded to experiment on animal the opinion of many English judges, that Canadian I red this done, they are again closed, and the meat is subjected life. He built a piggery and introduced into the roof and animals are better suited to the British market than Ken to two hours' additional cooking. The boilers supplying three sides of it, violet-colored and plain glass in equal tacky haves, such was the interest manifested in this, hot water for this latter process, are 14 x 4½ feet, and ten proportions. The experiment, though not remarkably the first consignment of Canadian horses, that an effort men are employed in the department. Next follows the successful, was sufficiently so to afford him some encour was made to put them on exhibition at the Assignificantly cooling process which is facilitated by a stream of cool, agement. His next subject was a bull calf, puny and feeble at birth, and in this case, the result has been "extraordinary" the animal maturing into one of the best developed of its kind. He also found similar effects from testing the efficiency of the same force on fowls and serves to show that if relative prices continue anything equal distribution of "stock" or gravy poured over its from testing the efficiency of the same force on fowls and serves to show that if relative prices continue anything equal distribution of "stock" or gravy poured over its fishes; "they grew much more rapidly and to a larger size near what the importer has realized, Canadian farmers surface. Adjacent to the main establishment is the tin will find it decidedly advantageous to breed more horses can manufactory, which, with its forming machines, dies, double acting power-presses, swedging machines, paint shops &c., gives employment to forty additional men and ten girls. The bones extracted, as already alluded to, are the requirements of its people that the pastoral tenunts placed in what is called the "digester," a strong metal another, in which a delicate child was claimed to have the requirements of its people that the pastoral tenunts vessel with safety valves, and subjected to a high steam have, according to seasons and circumstances, either to vessel with safety valves, and subjected to a high steam have, according to seasons and circumstances, either to pressure which causes their juices to exude in the form of 'stock" or gravy for preserved soups and other similar purposes. The company's business is now very fairly esarried to a high degree of perfection, there exists a preju- i tablished, and, according to all accounts, rapidly increas-

Montreal Agricultural and Horticultural Society.

The Montreal Agricultural and Horticultural Society come to the front and announced, after an experience of has issued its first Report on the different varieties of eight years at a cost to himself alone of £100,000, that he fruits which have proved best adapted to the Province of has perfected appliances both to freeze the meat exported Quebec. A brief description is given of each variety, such and to keep it frozen in transit, so that, on its arrival mass will serve as a saide to intending planters and propa-Several instances having been recorded recently of tires, Lugiand, the entire careases can be handed over as sweet; gators. The paper on pears partakes more of the nature originating apparently from old, greasy dish-cloths thrown, and fresh as when killed. As far as successfully accom-joi an individual report, many of the kinds enumerated away on kitchen waste-shelves, men of science have over plashing all he sought for on shore, there is no doubt of having been comparatively unfined, of tested to a very their attention to the subject and, after careful expensional, as meathept at the works for months has been tested summed extend Apples are adjudged in order of prefer ments, announce the following curious results. It is deter, by numerous and no difference in flavor or appearance enco as follows. 1, Fameuso; 2 and 3, Red Astrachan and mined by experiment that a handful of cotton waste could be acteded between it and ordinary butcher's meat; Alexander, 4, Duchess of Oldenburg, 5, St. Lawrence, soaked in boiled linseed oil, placed in a chamber at a tem, out of course, the stowing it in a ship's hold and sending to and 7, Peach tof Montreal, and Golden Russet of Westperature of 170 deg. Fah., will take fire in less than two it through all changes of chimate involves a special adapta- ern New York. Of Crabs, the 'Montreal Beauty," a hours. It raw inseed oil be used, the time occupied is tion (for the sea voyage) of means only hitherto proved, valuely almost unknown outside the province is well spoken from four to five hours, and with rape oil about six hours, suitable on shore and there is therefore a new element of oil. Inches, says the Report, is rather large, with a very trail port oil takes about the time last mentioned, under risk, which his teliow-colonists have felt that he should not relicious and upright head which remains so until the weight