## An Early Plan to Improve the Mouth of the **Mississippi by Jetties.**

The New Orleans Times finds on page 357 of the first volume of Gayarre's "History of Louisiana" the following notice of an early proposition to deepen the mouth of the during the past year, viz : Baracoa, 3,112,006; San Andreas, Mississippi River by means of jetties. The author says:

"The necessity of deepening the mouth of the Mississippi had attracted the attention of the French Government at the (per steamers), 158,863; Honduras, 139,800; Port Antonio, earliest period of the establishment of the colony, and the engineer Pauger made, in this year, 1723, a very interesting 55,000; Gilarie, 38,800; St. Jago, 21,600; Mayaguez (part report on the practicability of arriving at this desired result. | cargoes), 10,430; San Ann's Bay, 8,200; San Domingo (per He represented that it was easy and not expensive to fix (fixer) or to control the current of the Mississippi so as to 8,205,578 cocoanuts, which comprised the cargoes and parts make it subservient to the plan of operating upon the sand of cargoes of 114 vessels, exclusive of steamers. Of the banks which obstructed the several mouths of the river, and above, 662,249 cocoanuts perished on the voyage, a loss of 8 so as to give admittance to the largest ships, whatever might per cent. A comparison of the above with the imports of be the depth of water they drew; that, if necessary, a fine 1878, the result shows a decrease of 981,307 cocoanuts. artificial harbor with quays might be created at the Balize, with the numerous resources which the nature of the locality there was a loss of 33 per cent; 126,000 grape fruit, loss 10 offered, and that it might be effectually protected by such, per cent; 5,144 shaddocks, loss 33 per cent; 9,000 plantains, fortifications as he indicated. He recommended to shut upall the mouths of the river except one, in order to force a greater | were also imported in small quantities of each, mandarins, volume of water into the remaining channel, which would cantaloupes, sapodillas, alligator pears, manma apples, and consequently acquire more depth.'

that the idea of the system he adopted was not original with were imported are the United States of Colombia, Mexico, him. He never claimed that. It is to his credit, neverthe- Central and South America, Venezuela, British West Indies, less, that he was able not only to appreciate the system, but French West Indies, Cuba, Porto Rico, England, Scotland, was willing to risk fame and fortune in carrying it out in France, Spain, Portugal, and Italy. The value of green the face of strong professional opposition.

## Our Trade in Foreign Fruits.

The seventh annual report of the foreign fruit trade of New York, just completed by U. S. Inspector of Customs J. H. Bostwick, contains much interesting information. The principal statistics for the year 1879 are as follows:

The importation of Mediterranean fruit at the port of New York during the year 1879 consisted of 108 cargoes by steamers and 54 by sailing vessels, and comprised 880,729 boxes and cases of oranges and 900,505 of lemons, showing an increase of 26 cargoes by steamers and 24 by sailing vessels, and of 525,732 boxes and cases over the importations of 1878. The number of oranges was 239,751,255, of which it is as serted 119,875,627 perished on the voyage, a loss of 50 per cent. The number of lemons was 315,176,750, of which it is asserted 113,463,620 perished on the voyage, a loss of 36 per cent. Total number of oranges and lemons, 554,927,975; STROBRIDGE VS. LINDSAY, STERRITT & CO.-COFFEE MILL boxes and cases of oranges and lemons, 1.781,234. There were 44,365 barrels and 56,721 half barrels of grapes imported last year, at a loss of 25 per cent, a slight decrease compared with the imports of the preceding year.

The trade in Mediterranean fruit during the past year has producers. The price of box fruit was as a rule very low, particularly in the case of oranges imported from Catania and Palermo. These were seriously affected by a parasite which greatly impaired their value. A large proportion of the fruit arrived in bad order.

sisted of 16 cargoes and several parts of cargoes by sailing its recognition by the trade as something new and merivessels: also 33,736 barrels of oranges per steamers. Of the above, 21,286 barrels were from Kingston, Jamaica, and 7,450,100 oranges, of which 3,352,545 perished on the voyage. There were 15 cargoes and 665 barrels imported from Mayaguez, comprising 4,388,045 oranges, of which 1,912,195 perished on the voyage; from Havana, 7,212 barrels, comprising 2,307,735 oranges, of which 1,038,480 perished; from Nassau, 2,734 barrels, comprising 919,659 oranges, of which 299,249 perished; from Montego Bay, 1,389 barrels, comprising 771,665 oranges, of which 347,249 perished; from Trini- Roberts, January 6, 1875, the claim in which is for "the dad, 445 barrels, comprising 285,917 oranges, of which method or process of increasing or restoring the productive-214,438 perished; from Abaco, 1 cargo, comprising 190,000 ness of oil wells by causing an explosion of gunpowder or oranges, of which 17,000 perished; from Baracoa, parts of its equivalent at or near the oil-bearing point, in connection cargoes, comprising 84,900 oranges, of which 35,950 perished; with superincumbent fluid tamping, substantially as defrom Guyanilla, 4 barrels, comprising 1,400 oranges, of which scribed," declared to be for the same invention as his origi-600 perished. The above shows a grand total of 16,399,421 nal patent dated May 20, 1866, and sustained. oranges, of which 7,217,706 perished, an average loss of 44 2. The decision in the case of Roberts vs. Dickey, 4 Fisher, per cent. An increase is shown of two cargoes and 7,610 532, construing the true meaning and scope of such original barrels of oranges over the imports of the preceding year.

The importation of bananas from the West Indies the past year consisted of 105 cargoes by sailing vessels. Of these dinary well is not an anticipation of a process by which a pendent on the weather and waiting on the slow process of there were 90 cargoes from Baracoa, comprising 191,888 torpedo may be exploded many hundred feet below the sur- sun drying, and without the most expensive resort to fuel bunches, and 15 cargoes from Port Antonio, comprising face of the ground and below the top of the rock through 28,823 bunches; from Kingston, per steamers, 47,965 bunches; which an artesian well has been sunk, and at the exact from Montego Bay, per steamers, 36,134 bunches; from point in the well where the effect of such explosion is de-Trinidad, 284 bunches. Total number bunches of bananas sired, with a water tamping sufficient to confine the effect to imported from the West Indies, 305,094, of which 79,518 per- the vicinity of its location.

on the voyage, showing average loss of 26 per cent. A comparison of the above with the imports of the preceding year shows an increase of about 40,000 pineapples.

Cocoanuts were imported from the following named places 1,540,863; Aspinwall (per steamers), 560,602; Carthagena, 374,492; Falmouth, 245,000; Ruatan, 217,500; Montego Bay 132,704; Port Maria, 100,000; Kingston (per steamers), steamer), 7,000; Maracaybo, 3,000; making a grand total of

The importation of limes comprised 988 barrels, on which loss 25 per cent; 28,000 mangoes, loss 80 per cent. There watermelons, on which there was a loss of 25 per cent. The It detracts nothing from the merit of Captain Eads' work countries and places whence the foregoing varieties of fruit fruit entered for consumption at the port of New York from January 1, 1879, to December 31, 1879, is exhibited in the following table

Varieties of Fruit.	Value.	Duty.
Oranges and lemons, 20 per cent	\$2.919.003	\$583,800.60
Grapes, 20 per cent.	227.014	45,402.80
Pineapples, 20 per cent		21,059.40
Bananas, 10 per cent		38,247.30
Limes, grape-fruit, shaddocks, plantain	18,	
mangoes, mandarins, cantaloupes, me	el-	
ons, sapodillas, alligator pears, mann		
apples, and watermelons, 10 per cent.		931.50
Cocoanuts, free	213,438	
Total	\$3,856,540	\$689,441.60
A		

A comparison of the value of green fruit imported in 1879 with that of 1878 shows an increase in value of \$121,490, and of duty, \$23,425.

## RECENT DECISIONS RELATING TO PATENTS. United States Circuit Court-Western District of Pennsylvania.-Acheson, J.

PATENT

1. The first claim of reissued letters patent No. 7,583, granted to Turner Strobridge, March 27, 1877, for an improvement in coffee mills, is valid.

2. The mere fact that the device of the defendants has a been disastrous to the parties engaged in it, especially to the function additional to that accomplished by the patented invention will not justify the defendants in the use of the latter without liability.

3. Letters patent themselves prima facie establish the fact that patentable invention is embraced thereby, and strongly confirmatory of this will be evidence tending to show the used for making the infusion; the wood is chopped up and The importations of oranges from the West Indies con- favorable acceptance by the public of the improvement and torious.

Messrs. Bakewell & Kerr for the complainant.

# Mr. B. F. Thurston for the respondents

#### United States Circuit Court.-Western District of Pennsylvania,-Strong, J.

#### ROBERTS et al. vs. SCHREIBER. -OIL WELL TORPEDO PATENT.

1. Reissued letters patent No. 6,258, granted to E. A. L.

patent, approved.

7. Letters patent No. 47,458, granted to E. A. L. Roberts, April 25, 1865, for improvements in apparatus for exploding gunpowder or other explosive material in artesian or other similar wells, construed and sustained.

#### By the Commissioner of Patents.-Marble, Commissioner.

#### EX PARTE MCDOUGALL .- PATENT OIL CAKES.

1. The rule that several distinct inventions cannot be included in a single application is alike applicable whether such inventions be improvements in processes or machinery, and the mere circumstance that several processes pertain to the same subject matter will no more warrant their joinder in a single application than will the bare fact that two machines are in the same class of invention warrant the issue of one patent for the two.

2. Although each of the several "acts" of the "series of acts" constituting a process may be capable of performing separately its own peculiar function, and may be used independently of the others, yet if they all contribute in producing the final result they may be joined in a single application, and a claim may be made to the entire process, and separate claims can also be made to the sub-processes which go to make up the same.

3. Where one has discovered that a desired result can be attained by a process consisting of a series of steps, and that certain of the steps in such process can be replaced by others which will operate in an equivalent manner, a broad or generic claim can be made including all the modifications, and a more limited and specific claim can be made to any one of the modifications.

4. Where in several processes the order in which the several steps follow each is different, as are also the final results attained, the processes cannot be said to be modifications each of the other.

5. Alternative claims and claims for modifications condemned. The mere fact that courts, in order to save a patent, have sustained such claims is no warrant for the Office to shirk its duty in requiring that the claims shall be framed in the clearest and best form, and shall not embrace distinct inventions.

## New Varieties of Tea.

An English consul reports the discovery of two curious varieties of tea on the western frontier of China. In the monasteries on Mount Omi (or Ngomi) he was given an infusion of tea which is naturally sweet, tasting like coarse congou with a plentiful addition of brown sugar. It is only grown by the monks on the slopes of the mountain, and two days' further west its existence was unknown. The other variety, odd as it may appear, has the natural flavor of milk, or, perhaps, more exactly of butter. What is most interesting is the fact that it is wild tea, growing in its native elevated *habitat*, without cultivation.

This wild tea is found in the uninhabited wilderness west of Kiating and south of Yachow, at heights of 6,000 feet and upward, and is a leafy shrub 15 feet high, with a stem 4 inches thick. Every part of the plant, except the root, is put into a kettle of water with the dried leaves and twigsand being boiled yields a strongly colored but weak tea, possessing a buttery flavor, which gives it some resemblance to the Thibetan preparation.

## Cold Air Fruit Curing.

The California Mountain Messenger reports an interesting experiment in fruit curing lately made at a Placerville foundry. About a peck of sliced apples were placed in a sieve and subjected to a cold air blast for three and a half hours in the cupola furnace of the foundry, and the fruit is reported to have been completely and beautifully cured by the treatment, remaining soft and without the slightest discoloration. The cured fruit showed none of the harsh, stiff drvness which results from hot curing, the cold blast completely freeing the fruit from excess of moisture, with no possibility of burning or shriveling it. The Memenger says: 'Compared with our sun drying, it effects a great saving of expense, attention, and risk. Anybody who can command or devise a strong blast of cold air, can dry fruit in a 3. The application of a blast in a bore hole sunk in an or superior—we might say perfect—manner, without beingde

ished on the voyage, an average loss of 26 per cent. There were also imported from Aspinwall, per 55 steamers, 240,000 to invalidate a patent to an inventor who has disclosed to Paonia tenuifolia (single), tree pæonies, larkspurs, Canterbunches of bananas, of which 38,000 bunches perished on the public an invention the utility of which has been demonthe voyage, an average loss of 171/2 per cent. There was an strated by its general adoption.

excess of 40,000 bunches of bananas over the imports of the previous year, and a decrease in loss of 221/2 per cent. same as that exhibited in abandoned experiments, and hold-The importations of pineapples consisted of 53 cargoes, of ing the latter up as anticipations of the former is but an

which 8 cargoes were from Eleuthera, 11 from Cat Island, 8 illustration of what is very common-an attempt to defeat a from Governor's Harbor, 9 from Nassau, 5 from Abaco, 3 meritorious invention by proof that something similar had from Rock Sound, 3 from Harbor Island, 1 from Tampum been previously known, though it had never been perfected, Bay, 1 from Rum Key, 2 from Mayaguez, part cargo from and had never been any useful contribution to human know-Antigua, and comprised 2,558,833 pineapples. There were ledge or convenience.

also imported, per steamers from Havana, 143,555 pine- 6. The process invented by Roberts, as disclosed by his apples; from Kingston, 21,148; and from Montego Bay, specification, does not require that the superincumbent fluid ing surveys for the improvement of the Mississippi River, 16,466. The total number of pineapples imported from the tamping should fill the well, but that there should be a suf- in which work he was actively engaged to the end. He was places above named was 2,740,002, of which 712,391 perished ficient column of fluid to confine the effect of the blast.

and the risk of overheating.

#### **Old-fashion Flowers.**

The editor of the Rural New York r recently visited what he terms an old-fashioned garden, in which were growing 4. Unsuccessful and abandoned experiments cannot avail and blossoming luxuriantly white herbaceous pæonies, bury bells, fox-gloves, June and hybrid roses, and many other good old things, now seldom seen except at some old 5. The cause that works successful results cannot be the country home. Are we not, pertinently asks the editor, making a mistake in neglecting these fine old plants? At some future time we may wish for them in vain.

#### Benjamin D. Frost.

Benjamin D. Frost, civil engineer, under whose supervision the Hoosac Tunnel was constructed, died at St. Louis, Mo., July 19. Mr. Frost was a resident of Massachusetts, but had been in the West several months prosecut within a few years of completing his fiftieth year.