

**DENATURIZED ALCOHOL**

**Coos County to Have a Factory for Its Manufacture**

Arrangements have been about completed for the establishment in Coos county of a factory for the manufacture of denatured alcohol. In its production the principal agency will be the potato. Contracts have been entered into with the farmers of that county for the cultivation of 800 acres of potatoes, the supply necessary for the first year's run. The price to be paid will be \$8 per ton and as it will require 7,200 tons for the first years run, it means the distribution of \$57,600 among the farmers of Coos county.

The manufacture of denatured alcohol is not a difficult problem. The American agriculturist says, on this point:

"Denatured alcohol is simply the commercial grade of pure alcohol, to which is added wood alcohol or some other material that makes it entirely unfit for a beverage or for medicinal purposes.

"Alcohol is a product of the decomposition of sugar, or more properly glucose, by the action of ferments, such as yeast. Any substance which contains sugar or substances such as starch, vegetable fiber, etc., which can be converted into sugar can be used as a source of alcohol. The most important sources used commercially are grapes, potatoes, beets and other root crops and grains, especially, rye, barley, corn and rice. Many other fruits besides grapes are used—for example, apples, peaches and cherries. Fibers such as cotton, linen and hemp, after chemical treatment to change the woody fiber into glucose, have also been used successfully.

"In commerce the process is simply an improvement on the home process of making wine from grapes, currants and other fruit juices. A vat is filled with liquid properly warmed, and yeast is added and stirred. Soon bubbles of carbonic acid gas appear and gradually increase until the liquid looks as if it were boiling. In about 24 hours the bubbling gradually ceases, the liquid becomes clear and in about 48 hours from the start it is ready for distillation. This distillation depends upon the difference in temperature at which alcohol and water boil, the former requiring considerably less heat to turn into vapor. It also depends upon the condensation of vapor into liquid when the temperature falls."

It is superior to kerosene oil for light

as it gives a clear, bright flame and is absolutely free from odor. The cheapness of its production makes it one of the cheapest fuels known. It promises to produce almost as great a revolution as has electricity.

The success of the Coos county people in securing this factory should inspire this county with the spirit of activity in this direction. Not particularly as regards a denatured alcohol factory, but various other enterprises. The policy of procrastinating until the railroad reaches here or certain sections of the canal are completed is wrong. If efforts to secure these and other enterprises are put off until that time, it will mean a long delay. For capital cannot be induced to take hold of such things overnight. Now is the time to do the work, and when the railroad and canals are finished new enterprises will be ready to start. Klamath should follow the example of Coos—work for its own interests all the time. There is no strait there. Everyone works for a common purpose—the growth of Coos county.

**THE NOVEMBER DELINEATOR**

The November Delineator treats of the established styles for Autumn both in dress and millinery, and also devotes much space to the accessories of dress which women find so alluring. The spirit of Thanksgiving season is preserved in a poem by Theodosia Garrison; a football story by Violet Coen, and an old-fashioned Thanksgiving story by Harriet Prescott Spofford; and the Kitchen Department is stocked with suggestions for a variety of Thanksgiving feasts ranging from "A Rational Thanksgiving Dinner" to "A Vegetarian Thanksgiving Dinner." For the feminine fingers that grow so busy preparing Christmas gifts between November's and December's great feast days, there are numerous suggestions for practical and ornamental gifts in the Needlework department. In the children's department "The Doll's Dressmaker" will help educate the little maids in the fashioning of garments for their dolls. Besides the fiction mentioned, the three serial stories, "Fraulein Schmitt and Mr. Anstruther" by the author of "Elizabeth and Her German Gardener," "The Diary of a Baby" by Barry Pain, and "The Chauffeur and the Chapman" by the Williamson, continue to hold the interest displayed in them from the start. Stories by Anne Warner and Louis Macke, and several bright sketches

fill the department of "Miscellanea." The children will be pleased at the appearance of a "Bunny Rabbit" story by Grace McGowan Cooke and the conclusion of Florence Wilkinson's fairy story, "The Princess Who Came Into Fashion Again."

Lida A. Churchill in her Department of "Real Life" discourses on "Playing to the Upper Audience," George William Jordan gives good advice for "When We are Face to Face with Trouble," and the fourth paper of "Little Problems of Married Life" treats of "Making Marriage a Success."

**EVERYBODY'S FOR NOVEMBER**

Drawing to accompany "The Runaway Road," Frontispiece.  
 Soldiers of the Common Good, Chapters XXVI-XXVII, By Charles Edward Russell.  
 The Runaway Road, A Story, By Eleanor Hollowell Abbott.  
 The Devil's Side, A Story, By Herman Whitaker.  
 Before Adam, A Story, Chapters V-IX, By Jack London.  
 A King in Business, Chapters I-IV, By Robert E. Park.  
 The Sporting Champions of the Year, By Ralph D. Falco.  
 Shore-Wind, A Poem, By James E. Richardson.  
 The Interpreter, A Story, By Alice Brown.  
 Indian Summer, A Poem, By Francesca di Maria Palmer.  
 A Mother of Americans, By John L. Matthews.  
 The Grayosa Road, A Story, By Justus Miles Forman.  
 You!, A Story, By Maximilian Foster.  
 The Players.  
 The Poet, A Poem, By Arthur Stringer.  
 Henry William's Reincarnation, A Story, By Hugh Pendexter.  
 The House among the Firs, A Poem, By Elizabeth Roberts Macdonald.  
 The Autobiography of an Only Child, Little Stories of Real Life.  
 Henry Peaslee and His Aunt Emma, By Sarah N. Cleghorn.  
 Deacon 'Bijah's' Sheriff, By Elizabeth Flint Wade.  
 Bucket Shop vs. Board of Trade, By C. C. Christie, With a rejoinder by Merrill A. Teague.  
 To My Readers, By Thomas W. Lawson.  
 With "Everybody's" Publishers.

**TERRIFIC STORM**

**Florida, Cuba, Central America and Venezuela Suffer**

The following is a summary of the havoc wrought by one of the worst tropical storms that has ever visited the Caribbean sea. Hundreds of lives were lost and millions of dollars worth of property destroyed.

Miami, Fla.—Steamer St. Lucie sunk, 28 persons killed, 69 injured. Tidal wave swamps Elliott's Key and drowns whole population of 290. Barge wrecked and 50 passengers drowned.

Havana, Cuba.—Twenty persons killed and 12 injured; damage \$2,000,000 in Havana and Pinar del Rio Provinces. American warships drag anchors, but none are damaged. Two schooners driven ashore. Transport Cuba badly damaged and 124 mules and horses swept overboard. Forty lighters wrecked. Fifty buildings damaged and brick warehouse destroyed. Lodging-house collapses, killing eight occupants. Almost every tree in Florida uprooted.

Salvador.—Whole republic flooded, numerous lives lost, crops and cattle destroyed, houses tall, gutting occupants; whole face of country changed. Guatemala and Honduras.—Same results as in Salvador; loss amounts to millions of dollars.

Venezuela.—Dutch steamer lost 20 miles; railroad destroyed.

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