

Rubber! Its Discovery And Process Of Manufacture.

Next to Steel, the Most Valuable Manufactured Article in Use Today—An Interesting Story of How it is Prepared.

In the year 1838 Goodyear discovered that with the aid of heat, a chemical combination takes place between a crude gum called rubber, and sulphur, producing an entirely new product, known to the consuming world as Indian Rubber. Today, the value of manufactures of rubber exceeds that of any other exporting steel.

And what is rubber, I think that the best and most interesting explanation is that given by a father to his son, who had just been presented with a new pair of rubber boots. Here is what the father told his boy.

"You know there are a great many things in the world which seem very small to us and yet, without them, some of the most wonderful things would not have happened.

"Down in Brazil, in South America, several hundred miles up the Amazon River, there stood a great forest of trees, and in this forest—the same as in the forests of today—were birds and animals and bugs and beetles, etc. You know, all trees are protected by nature; some are protected from bugs eating their leaves by other bugs eating up these bugs; other trees are protected by having a thorny or bristly bark.

"In these forests in which the rubber tree grows, there was a wood-boring beetle, and this beetle would attack these rubber trees, boring into them, but the tree, in order to protect itself, had a poisonous juice, and as soon as the beetle bored into the tree, this juice killed him. Then the hole the beetle had made would be filled up with the juice, and the tree would go on growing as before. In those days, and natives around these forests (who were half Indian and half Negro) happened to find some of this juice sticking on the tree. They cut it off, rolled it together and made a ball, with which they would play games. The first mention of it was made by Herrera in his account of

the second voyage of Columbus, where he speaks of a ball used by Indians, made from gum of a tree which was lighter and bounced better than the far-famed balls of Castile.

"The first accurate information we had about this wonderful substance was from a French scientist named La Coudamine, who was sent on a mission by his government in 1735, which brought him into the very center of these enormous rubber tree forests, but even with the knowledge he obtained of this substance, rubber remained only a curiosity for many years. Its first practical use was for what you see it today in your school, rubbing out pencil marks. Just think! In 1820, nearly a hundred years ago, seventy-five cents would be paid for a piece of rubber half an inch long.

"The way they gather rubber is very interesting. When it comes from the tree it is nothing but a milky juice. The natives of South America discovered that the white latex was willing to pay them beads and other trinkets for chunks of rubber, so they became active in gathering it. The trees are tapped very much like the maple syrup trees, which you have seen, only the juice is found between the outer bark and the wood. So these men make a cut in the tree through the bark, almost to the wood. A little cup is then fastened to the tree by sticking a piece of soft clay to the tree, pressing the cup against it, and then the juice runs freely into this cup. Sometimes they have from ten to thirty cups on the tree, and the average yield of a tree is ten pounds of rubber a year.

"At the end of the day the cups are emptied into large earthenware jars or calabash and brought to camp, where they are poured into a large bowl.

"After the juice has been gathered this way, the native builds a fire; over it he places a cover the shape of a large bottle with the bottom knocked out of it. This fire is built of only nuts found in the forest, and the thick smoke arises through what would be the neck of the bottle.

"With a stick shaped something like a wooden shovel, like you use at the seashore, he dips into the milky juice in the bowl, then turns this stick or paddle around very rapidly in the smoke until the juice bakes on the paddle. He then adds more juice and goes through the same operation again and again until there are between five and six pounds of rubber baked on his paddle. He then cuts this off with a wet knife, which makes it cut more readily and that makes what is called a rubber 'biscuit', and starts over

COULD NOT PUT HANDS IN WATER

Salt Rheum Began with Itching and Burning, Watery Pimples, Cuticura Soap and Ointment Cured in Two Weeks.

L. Ann & Bellah, Que.—"I suffered with salt rheum for nine months. It began by itching and burning and my hands broke out in watery pimples and I could not sleep, only scratch my hands and they would bleed. The pimples were small and white, about the size of pin heads filled with water. I could not put my hands in water at all.

"I tried — and — but found no relief until I used Cuticura Soap and Ointment. I put the Cuticura Ointment on my hands after washing them with the Cuticura Soap and in two weeks they were perfectly cured." (Signed) Miss Virginia A. Bellah, May 17, 1912.

FOR PIMPLES AND BLACKHEADS

The following is a most effective and economical treatment: Gently smear the affected parts with Cuticura Ointment, on the end of the finger, but do not rub. Wash off the Cuticura Ointment in five minutes with Cuticura Soap and hot water and continue bathing for some minutes. This treatment is best on rising and retiring. At other times use Cuticura Soap freely for the toilet and bath, to assist in preventing inflammation, irritation and clogging of the pores. Cuticura Soap and Ointment sold everywhere. For liberal free sample of each, with 22-p. book, send post-card to Potter Drug & Chem. Corp., Dept. D, Boston, U. S. A.

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The following are a few of the goods specially selected for Christmas buyers.

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- MUFFLERS**—The latest shapes, in wool and silk.
- GLOVES**—In kid, mocha, dog, wool and silk.
- BRACES**—The famous President Suspender, and all other good kinds.
- ARM BANDS, GARTERS AND BRACES**—In fancy combination sets, a particularly nice assortment.
- SHIRTS**—In all the newest colors and designs.
- SUIT CASES, VALISES, TRUNKS.**
- CLOTHING**—Fancy Vests, Children's Fancy Suits, Men's and Boys' Clothing in great variety—everything that is needed for men, and our prices are ALWAYS the LOWEST.

Fraser, Fraser & Co.

27-29 Charlotte Street

COMMERCIAL TRAVELLERS OF MARITIME PROVINCES



A. M. FRASER
Retiring President

(Continued from page 1.)
Of the 1912 membership list, 640 were enrolled from Nova Scotia, and 533 from New Brunswick. The remainder were classed as associate members, 72 being from Nova Scotia and 8 from New Brunswick. Of those registering from this province it is estimated that 290 reside in St. John.

John S. Eagles, of this city, is the assistant secretary for New Brunswick, and the officers of the association since its organization have been as follows:

Officers from 1881 to 1913	Secretary
1881 A. K. MacIntyre	James Fraser
1882 " " "	" " "
1883 " " "	" " "
1884 Adam Burns	James Jack
1885 " " "	" " "
1886 " " "	" " "
1887 Wm. M. Doull	" " "
1888 " " "	G. E. Faulkner
1889 Wm. J. Stewart	" " "

Vice-President for Nova Scotia.
1889 " " "
1891 Thomas C. Allen
1892 " " "
1893 Edward Stairs
1894 " " "
1895 Jas. P. Wallace
1896 Frank C. Simons
1897 G. A. Woodill
1898 Thomas Douglas
1899 R. F. Merin
1900 " " "
1901 A. Mackinlay
1902 " " "
1903 W. B. Arthur
1904 " " "
1905 J. L. Hetherington
1906 E. Y. Rowland
1907 J. B. Douglas
1908 H. E. Pyke
1909 Ralph A. March
1910 Chas. Blackie
1911 D. Rutherford
1912 R. L. Phillips
1913 A. Milne Fraser
1914 Wm. J. Wetmore

THE STANDARD APPEARS IN ITS CHRISTMAS DRESS

(Continued from page 1.)
Standard's Christmas number falls short of expectations, and is not up to the ideal set by those who planned it.

On the other hand, in spite of these disappointments, there is a feeling something akin to pride in the paper which is today issued. It consists of seventy-two pages. It is home-made. The amount of imported matter used in its composition is insignificant and consists merely of four or five pictures suitable to the Christmas season. Practically everything has been prepared by friends throughout the province or by members of The Standard staff, and in this connection the thanks of the paper are due to those who so very willingly met the request for special articles.

Previous to today, if we are not mistaken, the record in St. John was held by The Globe, which some five or six years ago printed an anniversary edition of fifty pages, a magnificent paper and one which is still treasured

by many who were fortunate enough to secure copies. This was very largely of an historical nature. Today's Standard is, of course, wholly different, and will no doubt prove of more passing interest. It contains, we believe, a lot of valuable information along industrial lines, a proportion of reading matter with reference to and a measure of entertainment for young and old; and perhaps what is more to the point at this particular time, a section largely devoted to St. John city. It is printed on ordinary news print, the color work is all our own, and we believe compares very favorably with any other publications printed in America on a similar class of paper. While The Standard staff realize that they have not been able to produce the ideal newspaper originally planned, they feel fairly well satisfied with this first attempt at a Christmas Industrial Issue, and believe that with the experience gained during the past few weeks, they will be able in future seasons to publish something infinitely better.

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For

Xmas

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Gifts That Promote Health as Well as Give Pleasure

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- What Can Be More Appropriate Than:
- STARR'S HOCKEY SKATES,
 - TUBULAR RACERS,
 - TUBULAR HOCKEYS,
 - BOXING GLOVES,
 - BASKET BALLS,
 - STRIKING BAGS,
 - WIRE SPRING EXERCISERS,
 - INDIAN CLUBS,
 - HOCKEY STICKS,
 - DUMB BELLS.

And for Summer Sports, while still forming suitable Christmas Presents:

- FOOTBALLS,
- BASEBALL GEAR, including Mitts, Bats and Balls.
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15c SKATES GROUND 15c

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