

Africa's Awful Scourge

Sleeping Sickness and the Fatal Work of the Tsetse Fly

A REMARKABLE chapter in the romance of medical research is being written in the opening years of the twentieth century. It deals with the fight which is being waged against sleeping sickness, that awful African scourge, the mystery of which continues to baffle scientists and which has just claimed another notable victim.

The downright, uncompromising decline of the disease is its most characteristic. The numerous research expeditions which have gone out to Uganda, under government and private auspices, have not gone further than to determine the cause of the trouble, and to alleviate its miseries. Anything like a cure has yet to be discovered.

The population of the area principally affected was 200,000 a few short years ago. Now it is 100,000. Two hundred thousand people have actually died of the disease in this locality alone.

At the present moment some 20,000 natives of Central Africa are in an advanced stage of sleeping sickness. Hope, which is said to spring eternal in the human breast, has no message for these poor souls. Their doom is sealed.

Sleeping sickness, as its name indicates, bears a curious resemblance to sleep. It is caused by the sting of the tsetse fly. The actual bite is not poisonous. The fly acts as a go-between, depositing in one animal a trypanosome which it has sucked from the blood of another. The trypanosome, or parasite, carries death.

After infection, the victim becomes extremely excitable. Then he lapses into lethargy, followed by exhaustion. The periods of lethargy grow longer and deeper; the intervals of excitability shorter and more violent. Various glands of the body begin to swell, and at last the patient sinks into a state of coma, or continuous sleep.

No patient, when he reaches that stage, ever awakes. He sleeps on and on for six months, a year, or even two years. Finally, he takes him home, to the soft, long sleep, to the broad, sweet bosom of death.

Natives live in abject terror of the sickness in the districts where it occurs. On its approach they dismantle their villages and rush away. But the fatal fly follows them, and its area of operations is continually being extended.

A traveler who recently returned from the sleeping sickness country—

Dr. A. F. R. Wollaston—recalls with horror the devastations of the terrible plague in the regions which he traversed. The sights, he says, were fearful. People lay dead and dying on the roadside. It is the custom to turn stricken natives over to disinterment almost every village presented a revolting spectacle.

At a large Belgian post, Uvira, the population is dying by thousands, absolutely without any medical attention. In Uganda alone over a quarter of a million have succumbed to sleeping sickness since it broke out a few years ago. In the worst area the mortality is 80 per cent of the population, and it is estimated that in Central Africa over 2,000,000 persons have died from the disease during the last decade.

Medical inquiry was initiated in 1892, when the Royal Society sent out an expedition for the study of the malady. The cause was soon discovered. Col. David Bruce traced it to the tsetse fly. The geographical distribution of the fly corresponded absolutely to that of the disease. Natives collected the fly in packets. It was made to bite monkeys. The monkey contracted the disease and passed into a sleepy state.

The next question was: Where does the fly get the microbe? That mystery remains unsolved, although theories, of course, abound.

Dr. Robert Koch, the eminent bacteriologist, who discovered the bacillus of consumption, set out to solve this problem. At first he thought he had found a cure in the compound of arsenic known as atoxyl. It certainly gave relief, but only time would show whether the relief was permanent.

Dr. Koch had to admit, a few days ago, that although atoxyl drives the parasites away for a time, they tend to return, and the disease ends fatally. No permanent cure from atoxyl, or any other remedy, has yet been reported.

For more than two years, Dr. Koch has been working in the Victoria Nyanza. Next to establishing the remedial value of atoxyl, his most important discovery is that the sleeping sickness fly lives almost solely on the blood of crocodiles. Possibly, therefore, the cure may lie in the extermination of the crocodile.

Dr. Koch is emphatic on this point. "If we can destroy the crocodiles," he says, "the fly will disappear." "To carry this out is not difficult.

AN ODD RESIDENCE IN ALASKA.



Nemo, Alaska, is the lumber town of the northern world. Building facilities are so limited that almost everything is utilized. The canvas structure in the cut was once part of the painted panorama of "The Battle of Gettysburg," which in some mysterious way has made its final appearance in the far north.

EARLY RIVAL OF FULTON.

Denis Papan Said to Have Invented a Steamship 200 Years Ago.

Yesterday, according to a hardy and plausible tradition, was the two hundredth anniversary of the first steamship journey in history, says the Manchester (England) Guardian. The ingenious inventor to whom the credit is given was Denis Papan, a French mathematician and physicist, was a French Calvinist driven to exile by the revocation of the edict of Nantes. He spent some years in England, where he enjoyed the acquaintance of Boyle, and was then called to a chair at Marburg by the landgrave of Hesse, who was affected by the contemporary fashion of dabbling in science. Here Papan invented the first steam engine which gave any promise of industrial possibilities, and it is his engine which formed the starting point of all subsequent progress in steam engine construction.

It was natural that, having constructed a steam engine, he should think of applying it to the purpose of locomotion. The idea was not new. A century and a half before, in 1543, Blasco de Garay had suggested that ships might be driven by steam, but nobody before Papan had made any step to carry out the idea. According to the tradition, Papan constructed a steamship at Casse, and was ambitious enough to want

WHAT A CHIN TELLS.

The pointed or narrow chin signifies a nature not easily satisfied and a longing for an ideal.

Women with the indented chin have a tremendous desire for affection.

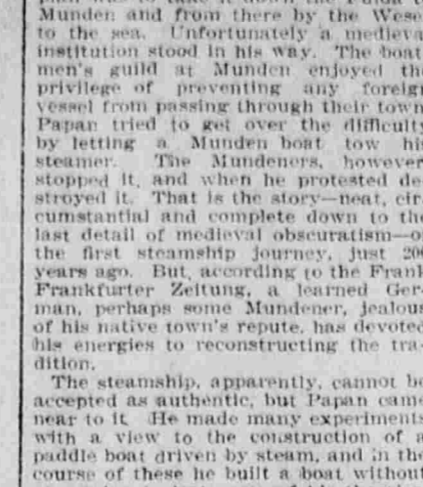
The narrow, square chin also signifies a strong love nature.

The woman with this chin will marry a poor man if she loves him, although she may have suitors of better wealth and of far higher social position.

The broad, square chin shows tremendous strength of feeling. The man with this chin is capable of the most devoted love.

Meet me, Wandamere, Sat. Evening.

AT THE TOMB IN THE HOLY SEPULCHER.



The cut shows a group of pilgrims at the tomb in the Church of the Holy Sepulcher, Jerusalem. The chapel which contains the tomb is so small that there is room for only four or five persons to kneel in front of the marble bench which covers the holy spot.

to cross over to England in it. His plan was to take it down the Fulda to Rotterdam and from there by the Weser to the sea. Unfortunately a medieval institution stood in his way. The boatmen's guild at Munden enjoyed the privilege of preventing any foreign vessel from passing through their town. Papan tried to get over the difficulty by letting a Munden boat tow his steamer. The Mundeners, however, stopped it, and when he protested destroyed it. That is the story—neat, circumstantial and complete down to the last detail of medieval obscurantism.

The steamship, apparently cannot be considered authentic, but Papan came near to it. He made many experiments with a view to the construction of a paddle boat driven by steam, and in the course of these he built a boat without an engine to test some of his theories. Leibitz thought the investigation serious enough to assist at some of his experiments, which are said to have been most successful. But the landgrave of Hesse lost interest in the thing and Papan made up his mind to take his boat to England and there fit it with an engine. On the voyage, however, the Mundeners laid violent hands on it, and in England Papan never could raise enough money to carry his schemes through. It would be easy to declaim against the fate which for lack of a little money prevented the early consummation of a great idea—easy, but a little unscientific.

We can hardly suppose that Papan would have brought the matter to a finish. A practically finished steamship is impossible without a practical steam engine, and Papan had not one. His own, though a great advance on anything known before, he himself could not put into effect, and it was two Englishmen, Newcomer and Cowley, who developed his plans successfully. But this engine was a pumping machine, and it was not until 90 years and more after Papan that Watt invented a steam engine that could provide motive power for all purposes. It was as a result of Watt's work that the first authentic steamship came into existence in 1775. But though the credit cannot be given to Papan of having constructed the first steamboat, nor even the melancholy satisfaction of having been balked of doing so by obscurantist poverty, the tradition which recounts these things has at least the merit of recalling one whose services in the development of steam power are far in excess of his renown.

IF EXTRAORDINARY VALUE EVER DREW A CROWD, THERE'LL BE A CROWD HERE MONDAY

NOTHING URGES LIKE SUCCESS. The remarkable progress of this Store so far this year urges us to greater Efforts, spurs us on to draw the time nearer—**THAT TIME IS SURELY COMING**—when we lay claims to the largest Sales in the west. True to our Policy we are selling cheaper, because we are selling more, thereby winning thousands of New Customers and Greatly increasing our Sales. The values we have given the past four months could not fail to increase the popularity of this store—**LAST MONDAY'S BUSINESS WAS SURPRISING—BY FAR THE BIGGEST MAY DAY WE EVER HAD. NEXT MONDAY WE MAKE A STRONG BID TO BEAT LAST MONDAY**—and, if extraordinary values ever drew a crowd, there'll be a great crowd here Monday!

MONDAY!
20c and 25c French Wash Batisse and Swiss Lawns at 11c a yard
 Wonders never cease in the Wash Goods section. Another great purchase of these most popular fabrics at a big price concession makes it possible for us to repeat this great sale. As the quantity will not last long, we suggest early shopping.

MONDAY!
Hemstitched Bed Sheets
 2 1/2 yards long and 2 1/2 yards wide; regular price \$1.25; limit 4 to a customer at, each..... **69c**

MONDAY!
Hemmed Pillow Cases
 All sizes; 42x36 and 45x36; regular price 12c; limit 6 to a customer, at each..... **9c**

MONDAY!
16 2-3c Curtain Swisses
 Full yard wide, in spider web, zig-zag and dotted designs; limit 20 yards to a customer at a yard..... **9 1/2c**

MONDAY!
30c White India Linon
 Limit 12 yards to a customer at a yard..... **17 1/2c**

MONDAY!
\$6 White Marseilles Bed Spreads
 Hemmed, fringed and cut-cornered; limit 1 to a customer at, each..... **\$3.45**

Splendid Savings Next Week on SILKS AND DRESS GOODS

- Choose from these Seasonable Specials at Quick Action Prices. For Monday's Active Movement
- Silk Messaline**
25 pieces 19 inch, all silk, satin finish Messaline, suitable for waists or full dress patterns, in Black, White, Cream, Alice Blue, Navy, Brown, Rose, Green, Gray, Tan, Mode, Corn, Heliotrope, Etc. Regular selling at \$1.00 a yard, now, a yard..... **68c**
 - Block Taffeta**
36 inch, all silk, regular \$1.25 grade, next week, a yard..... **95c**
 - Black Peau De Soie**
36 inch, all silk, fine Satin Peau De Soie, suitable for waists, coats, skirts or full dress patterns. Regular \$1.50 grade, Alice Blue, Navy, next week, a yard..... **\$1.19**
 - Wool Challies for 29c a yard**
50 Pieces fine wool challies, in dots, stripes, Persian and floral designs. The 50c grades, for a yard..... **29c**
 - All Wool Albatros for 39c a yard**
36 to 38 inch strictly all Wool Albatros in Black, Cream and all colors, for a yard..... **39c**
 - \$1.75 Value for 89c a yard**
40 to 46 inch all Wool stripe Voile, Silk, and Wool shadow novelties, plain and fancy Wool Taffetas, fancy Serges, etc. Regular value up to \$1.75 a yard..... **89c**

If You Really Want To Share in the Season's Greatest Values in Gent's Furnishings

- YOU MUST BE HERE MONDAY.**
 You'll find a tremendous stock to choose from and everything marked proportionately as low as the following items:
- 75c Neckwear 55c**
A vast variety of this season's most beautiful shadings in bias and cross stripes at only..... **55c**
 - \$1.00 Dress Shirts 64c**
30 dozen shirts consisting of a big variety of light, medium and dark patterns. Cuffs on or detached. While they last..... **64c**
 - \$1.25 Negligee Shirts 89c**
Negligee shirts are more popular this season than ever before. We have all the popular shades. For one week take your choice out of our 425 line at..... **89c**
 - \$1.50 and \$1.75 Dress Shirts \$1.19**
Our large stock of plaid and cord style shirts in plain white and fancy patterns, with cuffs on or detached, are all included for one week at only..... **\$1.19**

ESTABLISHED 1864
T. Auersbach & Co.
ONE PRICE TO ALL NEVER UNDERSOLD

THE READY-TO-WEAR SECTION

- Is Specially Active in Bargain-Giving. Another Purchase of Suits, Waists and Skirts
- If the sale beginning Monday is anything as sensational as the purchase, it will be Salt Lake's most stirring event. Never in our 41 years' business have we been able to secure such style and quality at the prices we paid for these lots. We want to call your attention to every individual announcement in this item.
- \$14.50 Tailor-made Suits \$9.75**
A limited quantity of handsome tailor-made suits of Panama and some fancy mixtures, in blue, black, and brown, coats are either semi or corset fitting, skirts pleated and gored. Regular \$14.50. Special..... **\$9.75**
 - \$22.50 Tailor-made Suits \$13.75**
Beautiful suits of Clifton Panama, serge and fancy mixtures, in solid colors and stripes. Coats are plain tailored and Eton-style effects, and lined with guaranteed satin or taffeta, skirts are pleated and circular effects. Regular \$22.50. Special..... **\$13.75**
 - \$9.50 Ladies' Skirts \$6.75**
Included are Panamas and serges in plain colors and shadow stripes, full pleated with five bands of silk above hem and circular gored with band of soft material. Regular \$9.50. Special..... **\$6.75**
 - \$15.00 Ladies' Skirts \$10.75**
Exceptional values are offered in this collection, extra fine quality of Clifton Panama, in all the late shades; Blondine, tan, medium brown, blue, black, some embroidered trimmed, others trimmed with self materials. Regular \$15.00. Special..... **\$10.75**
 - \$15.00 and \$1.75 Lawn Waists \$1.19**
Dozens and dozens of lawn waists in many designs of lace and embroidery fronts, some long sleeves and open front, others 3/4 sleeves and open back, also tailor made with stiff collar and turn back cuffs. Regular \$1.50 and \$1.75. Special..... **\$1.19**
 - \$3.50 and \$4.00 Lawn Waists \$2.45**
Dainty lawn and lingerie waists of extra fine quality, trimmed very handsomely with embroidery, Irish point and Val lace. Some open front, long sleeves, others short sleeves, open back. Regular \$3.50 and \$4.00. Special..... **\$2.45**
 - \$6.00 and \$7.00 Lace and Net Waists \$4.50**
Handsome Bob or net and Fillet net waists, prettily trimmed with lace and silk, some with gir buttons, Gibson and Klono effects, some white. Regular \$6.00 and \$7.00. Special..... **\$4.50**
 - \$8.50 Ladies' Skirts \$5.95**
Handsome Panama Skirts in all shades, some pleated with band above hem, others are gored effects, with box pleats back and front. Some very pretty new hairline stripes among these. Regular \$7.50. Special..... **\$5.95**
 - \$1.25 Long Kimonos 63c**
200 beautiful long Kimonos, made of extra quality lawn in floral and stripes designs, border in color, next week, per yard..... **12 1/2c**
 - 25c French Printed Madras Cloths, next week, per yard..... 12 1/2c**
 - 25c Arnold Scotch Cloths, the most attractive and serviceable fabrics for Wash Dresses, next week, per yard..... 16c**
 - 25c Duster Linen, in the natural linen color, next week, per yard..... 16c**
 - 50c Checked and Plaid Dress Linens, next week, per yard..... 24c**
 - 75c Silk Wash Pongees in tan and black, next week, a yard..... 49c**

WHITE GOODS AND WASH GOODS VALUES

- That Cannot Fail to Hold the Attention of Money-Saving People.
- 25c white English Nainsook, next week, per yard..... 16c**
 - 25c White Persian Lawn, next week, per yard..... 29c**
 - 50c White Dotted Swisses, next week, per yard..... 29c**
 - 40c White French Lawn, 48 inches wide, next week, a yard..... 29c**
 - 100 pieces White English Long Cloth—12 yards in each bolt—the 43c grade, next week, per bolt..... \$2.28**

MONDAY!
\$4.00 Irish Point Curtains, \$4.00 Two-Toned Scotch Curtains, \$4.00 Ivory Novelty Curtains, \$4.00 Battenberg Curtains, All go at per pair— \$2.10

MONDAY!
Ruching Sale
 Box of 6 pieces for 19c Regular Price 40c.
 Box containing six neck-lengths of ruching, all good, desirable patterns, each different; regular price 40c a box; on sale Monday only at a box..... **19c**

MONDAY!
Corset Cover Embroidery and 17 inch Wide Flouncings
 40c and 50c values on sale at a yard 19c

MONDAY!
Ladies Sleeveless Vests
 Best 20c Values at 12 1/2c
 250 dozen low neck, sleeveless vests in the best 40c and 50c grades; Corset Cover Embroideries and Flouncings all full 17 inches wide—on sale Monday only..... **12 1/2c**

MONDAY!
Ladies Night Gowns
 Extraordinary for the price 99c each
 For choice of an elegant variety of high or low neck gowns—lace or embroidery trimmed and made of best material; all sizes in the regular \$1.50 and \$1.85 grades—the sale price Monday..... **99c**

MONDAY!
27-INCH JAPANESE WASH SILK, PINE, FIRM, EVEN QUALITY; CREAM ONLY; THE GRADE; FOR MONDAY ONLY— 43c a yard

TAKE NOTICE OF The Great Half Price Sale of All LEATHER PURSES & SHOPPING BAGS

- If you are interested in the greatest bargain offer Salt Lake has ever known, be here next week and make your selections from the best and biggest line of ladies' purses and bags of every desirable shape, color and quality. The entire stock goes at Half Price. None reserved.
- All \$12.50 purses in this sale..... **\$6.25**
 - All \$10.00 purses in this sale..... **\$5.00**
 - All \$9.00 purses in this sale..... **\$4.50**
 - All \$6.75 purses in this sale..... **\$3.40**
 - All \$5.00 purses in this sale..... **\$2.50**
 - All \$3.50 purses in this sale..... **\$1.75**
 - All \$2.75 purses in this sale..... **\$1.40**
 - All \$2.00 purses in this sale..... **\$1.00**
 - All \$1.50 purses in this sale..... **75c**
 - All \$1.00 purses in this sale..... **50c**
 - All 65c purses in this sale..... **33c**

Such Shoe Values Make a Busy Week a Certainty

- Ladies' Patent Oxfords, with turned sole, plain toe, all sizes, worth \$3.25. For next week..... **\$2.35**
- Ladies' Kid Oxfords, with heavy or light sole, patent tip, Blucher cut, all sizes, worth \$3.00. For..... **\$2.10**
- Ladies' All Kid or Vesting top Oxfords, with medium weight sole, all sizes, worth \$2.00. For..... **\$1.55**
- Ladies' House Slippers, with elastic side, patent tip, low heel, all sizes, worth \$1.75. For..... **\$1.25**
- Misses' Black Kid Oxfords, with medium sole, patent tip, Blucher cut (sizes 1 1/2 to 2), worth \$1.75, for..... **\$1.35**
- Ladies' Patent Kid Oxfords, with well or turned sole, plain toe or tips, worth \$4.50. For..... **\$3.45**

UNPARALLELED MILLINERY VALUES

The Patronage of this Section has been growing marvellously during this present month, as a result of the incomparable values we are offering. For next week we offer an Elegant Collection of the Most Charming Summer Hats imaginable—Hats of Every Conceivable Shape and Exceedingly Becoming, being made with best taste from superior Materials—Exact Copies of Parisian Models—value \$15.00 and \$11.00, at **\$9.00 and \$7.00**