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HOW PELTS ARE BROUGH DOWN COUNTRY. **PAPPED** Go along Government street any day and you will see fashionably dressed women wearing anywhere from fifty to five hundred dollars' worth of furs. Look into some of the shop windows and thousands of dollars' worth. more meet your gaze. They are made up in the form of wearing apparel, mostly female wearing apparel; they are not constructed A TRAPPER AND HIS SHANTY primarily for warmth, for Victoria enjoys a very mild winter climate, and, excepting very iew days in the year, fur garments are superfluous and more uncomfortable than otherwise. Yet fur is fashionable. That is the reason for it all. Fur is fashionable, not only in outer garments, but as trimming for ball gowns and even for underskirts. It is being worn more han ever before, and notwithstanding the fact at more imitation furs are being turned out season than ever, the demand is steadily

ome time soon, say those who ought to the pace must slacken. Steps are 'beaken now to protect some of the fur-bearimals whose pelts are eagerly sought keen hunting which must, otherwise, their extermination. The "fur line" is steadily northward; trappers are findcreasingly difficult to obtain furs, and s of some animals have become so rare immensely valuable.

approaching coronation ceremony, as pens, emphasizes the shortage in one of fur-ermine. So scarce has this ecome, it is reported, that it is imposto secure sufficient to fill the demandis expected that the traditional royal ill have to be omitted in some instances

uch has been written about the roof precious stones and gold, but it is al if the romance of fur does not outthem far. Sometime, when most of the ous furs are no longer obtainable and tists are carefully piecing together the umed remains of the long-extinct beaver, rmine, or fisher, a writer will arise who tell the story of fur, and it will be a great

here are residents of Victoria today who ld help build up some of the earlier chapand men on the northwestern frontiers tending their traps might furnish material

contributed \$180,190.some of the latest. Fur-bearing animals are found in many The principal fur-bearing animals taken in intries and under different conditions, and Canada at the present time are, fox, of the accordance with various customs the sysblue, cross, red, silver, white and black variis of taking them differ. In the last analyeties; wolverine, otter, lynx, bear, mink, marhowever, all systems work out to the same ten, beaver and muskrat. Of these the fox c—the scalping of the hunted. The Orthern Canadian Indians are perhaps the

finest trappers in the world. Their natural ability as woodsmen and their ability to withstand the severe winter weather of the north and the loneliness of the silent places, together with their cleverness in setting snares and bait and their knowledge of the animals they seek, made them successful where the white man often fails. Statistics for 1909, to hand, show that the Indians of Canada, during that season, netted \$828,221 from their fur catches, an increase of \$221.387 over the previous season. This increase in itself is a significant commentary on the growing keenness of the

British Columbia took second place in 1909 in the Indian fur catch. Saskatchewan led with \$192,942 worth, while this province

a system of dials and pointers, after being set for the time elements of the selected station, the day, hour and minute of each high and low water. These are recorded by the operator. The machine is then reset for obtaining the heights in feet and tenths corresponding to the previously recorded time. The anwal tide tables published by the survey The beaver, which was for many years since 1883 were made up from the predictions made upon this machine. Various shortcoming of this machine, as well as the desirability of utilizing more accurate and increased information regarding the constituents of tidal fluctuation, led Dr.

accurately the height of the tide above any base line at any instant. The general and detail designs of a machine embodying these data were made by E. G. Fischer, chief mechanician of the survey.

A chain, fixed at one end, is lengthened and shortened successively at its free end by pulleys, each representing one of the constituents. These pulleys are moved up and down by means of cranks fastened upon shafts to which motion of the required speed is imparted by means of bevel gear wheels.

The effect, or amount of the influence, of the various tidal forces, each of which is thus represented by a separate mechanism periodically lengthening and shortening the free end of the chain, is obtained for each particular station by setting the crank pins to the required amount of eccentricity upon a scale provided for the purpose.

It will be seen that when all the component mechanism are put in motion by the hand-crank, shafts and gear wheels, suitably arranged for the purpose, each one moving at its own rate of speed and its own amplitude, some lengthening, some shortening the chain laid alternately over and under the pulleys, the tree end of the chain, suitably weighted, will move in such way as to represent at any instant the sum of all the components.

In front of the large brass plates carrying the component shafts, their gears, pulleys, chains, etc., is placed, suitably mounted on two brass plates, a system of dials with their shafts and gears, and a surve-tracing apparatus. The free ends of the two chains, one of which may be named the height and the other the time chain, are connected with these dials in such manner that the motion of the former is shown by a pointer oscillating around a circular scale representing feet and tenths, indicating the are caught: The banks of the stream are careheight above or below a selected base line. The fully watched and any holes that may exist are time chain is carried between the plates of the noted. The beavors are again frightened out dial, and is seen through an opening in the of these refuges and caught through holes in front to move back and forth when the machine is set in motion by a hand-crank at the left The romance of fur is world wide, for furof the operator, who sits facing the dials. bearing animals come from many different

The turning of the hand-crank also sets in motion the pointers of three dials; one showing the day of the month; one, the hour, and a third, the minute.

The extreme length of this wonderful machine, including the operator's desk, is 11 ft.;

the ice by means of a hook and pole.

able for my lady.

countries. All over the world, in the lonely,

dangerous places, sturdy men are enduring

privation, hunger and even death, and count-

less animals, big and little, are giving up their

lives to provide something new and fashion-

REMARKABLE MACHINE PREDICTS

TIDES

Writing in "Popular Mechanics," T. W.

Lewis gives an interesting account of a ma-

which mechanically predicts tides. Mr. Lewis

the United States Coast and Geodetic Survey

is to give accurate information to the naviga-

tor, to the engineer engaged in harbor and

of the sea along the coast, due to tidal forces.

and the principal ports in other countries.

all countries in the world in tidal forecasts

with a recently invented machine. Formerly

this work required the employment of 65 com-

puters for two or three days to figure out a

year's forecast of tides for a given place. Now,

one man sits down to a machine, all hung

with wheels and pulleys, turns a crank and

grinds out a tide table for any point for which

the machine has been adjusted. The machine

was made by two officials of the survey. Its

perfection was not reached until after 14 years

of haid work and study, and it cost the gov-

erument, in time and material, the sum of

for a tidal calendar, put out for distribution

from one to two years ahead of time, involves

an amount of computation so vast that the use

of mechanical devices has long been recognized

as necessary. About 1875, Sir William Thomp-

son (Lord Kelvin) invented a machine for

predicting tides. It produced a curve on a

long strip of paper from which the times

and heights of high and low water could be

scaled off. This machine, it seems, has never

been used in the regular prediction of tides

and is now on exhibition in the South Ken-

sington Museum. Some time later, E. Rob-

erts, of the British Nautical Almanac office,

had another machine constructed upon nearly

the same plan, but larger and with some im-

tide-predicting machine after general plans

time attached to the survey. It indicates, by

In 1881, there was constructed for the

The furnishing of the printer with copy

\$15,000.

provements.

Today the United States government leads

One of the most important functions of

its extreme height, 6 ft., and its width, 2 ft. The time of setting the machine for predicting a tide, including checking, is from z to 4 hours; that of predicting and recording the high and low waters for a station for one year, from 10 to 14 hours. The machine can be adjusted, and a whole year's prediction as to what the tides will be at a given point can chine recently completed in the United States be recorded and tabulated in half a day by one man. There are but four such tide-predicting

machines in the world. The tidal forecasts for the years 1911 and 1912 have already been computed, and the work of preparing the 1913 forecast has begun.

It has been suggested that Prof. Willis river improvement to the hydrographic sur-Moore's job of chief weather forecaster might veyor and to many others, of the rise and fall be made a perpetual round of joy, free from the dread of unforecasted flarebacks, if some This information is furnished in the form of inventive genius could catalogue the meteoria book published annually showing the exact cal influences, as the tidal observers have done time of the high and low waters and their with their mysterious elements, and then reheights, for every port in the United States produce the effect on a weather-predicting ma-

## MEESTER MARKA TWAIN

Dey say eet was hees job for joke An' poka fun at seempla folk. I don'ta ondrastan'. I nevva read w'at's een hees book; I only see da way he look-I only know da man. An' evra time he passa by He show to me so kinda eye Ees beautiful to see: For dough I'm domba Dagoman, So strange, so queer een deesa lan' He nevva laugh at me.

An' dey dat say he only joke An' maka fun weeth seempla folk Ees mebba so, dey lie. Ees mebba so dey no could see How moocha sweeta charity Ees smila from hees eye. An' now dat he ees gon' an' change For' nudder land dat eesa strange To heem as eet can be, I can daylieve day dere are kind To heem, poor stranger, as I find Dat here he was to me. -Catholic Standard and Times.

## GO IN LONG CARAVAN TO SEEK HEALTH.

A novel plan for treating tuberculosis is United States Coast and Geodetic Survey a to be given a trial by an Indiana man who has organized a caravan that will include two furnished by Prof. William Ferrel, at that automobiles and 12 vans to tour the states of Kentucky, Tennessee, Virginia, North Carolina, South Carolina, Georgia, Alabama and Mississippi during the winter. There will be 50 persons in the party which was organized by the father of a child afflicted with the disease. The patients will have the advantages of out-of-door life and a winter in the South without the vexing routine of a sanitorium. Nurses, cooks and physicians will accompany the party. The trip will be made a pleasure tour as well as an expedition in search of

## REFERRED TO DR. SIDIS

"Infant prodigies are hard to understand," said the man who is easily impressed. "I don't think so," replied Miss Cayenne. 'As a rule they are simply young children with

highly imaginative parents." - Washington

skins are the most valuable, a single silver with a hatchet, and a trap is set at the water skin having been known to sell for \$1,700 on entrance to the house sa that on returning they heights and times or, in other words, show Star.

THE BEAR HUNTERS' CATCH

the London market. The white and blue phases of the Arctic fox are the winter dress of different animals, not the winter and summer coats of the same animal. The white fox is found all over Canada from the fiftieth parallel or, on a level with the south shore of Hudson Bay to as far north as animal life is found. The black fox, skins of which have been known to sell for \$4,000 in St. Petersburg, is a rarity, and the cross fox is not a hybrid, but the species which bears the mark of a cross upon its

threatened with extermination, owing to the wholesale methods of slaughter employed by the trappers, is again taking its place in the market. The beaver is by reason of its winter habits particularly easy to capture. The Indians take advantage of the beaver's peculiar characteristics to catch whole colonies of the R. A. Harri, a member of the Coast and Geodetic Survey, to recommend the design and animal, driving stakes above and below the beaver house. The little animals are then construction of a new machine. He furnished frightened out of their lodge by beating it the theoretical data for solving mechanically a formula which will yield at one setting the