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THE WONDERS OF THE FROZEN SOUTH

By Captain Frank Hurley
G. P. Putnam's Sons

It is impossible for mere words to tell the fascination of this book, "Argonauts of the South" by Captain Frank Hurley. Stranger than fiction indeed, are these truths of polar adventures.

It was by a lucky chance—some might call it unlucky considering all that followed—that Captain Hurley then only a boy, was chosen as official photographer to accompany Sir Douglas Mawson's Australasian Antarctic Expedition.

Lightheartedly this little group of scientists, risking their lives to answer the haunting call of truth, set sail on uncharted seas. Sixteen months they were embarking upon of strange and humorous and terrifying adventures. With equal zest and skill Captain Hurley recalls them all.

There was the day when during the building of their hut in Antarctica, Dr. Mertz was sitting on the ridge cap nailing it down, and Mr. McLean was "tacking" on the thin ceiling lining directly beneath with four inch nails. The result was all that could have been hoped for. "Suddenly Mertz sprang into the air with a wild yell, lost his balance, slid down the sloping splintery roof, clutched a stay that held the kitchen stove pipe and took the chimney with him in a head-long dive into a snow dump."

Forthwith a large leather medal was cut and presented to the chief actors to commemorate the occasion.

Then there were the constant risks of life which became the daily routine, the long tortuous expedition on foot into the frozen land, the struggle with the vicious snows and winds and seas. But Captain Hurley tells his story so well and with the aid of his beautiful photographs paints so gloriously the beauties of that No Man's Land, that we find ourselves with a new desire added to life—that of polar exploring.

PIONEERS

"THE WIND"

Anonymous
Harper & Brothers

"The Wind" by an anonymous author is a tragedy of pioneering life.

Letty, a girl who is young, sheltered and has lived a happy life in Virginia is precipitated by the death of her mother and lack of funds into the home of a cousin on the plain of Texas. On the train as she approaches this new country, she meets a man, Wirt Roddy, who knows Texas, and in half teasing, half bitter words tells her of the things that lie ahead of her.

"The wind is the worst thing. . . It's ruination to a woman's looks and nerves pretty often. It dries up her skin till it gets brown and tough as leather. It near 'bout puts her eyes out with the sand it blows in 'em all day. It gets on her nerves with its constant blowing—makes her irritable and jumpy." His words are truer and sink in deeper than she thinks.

When Letty arrives at her home she finds her cousin as lovable as ever, but his wife, a native Westerner is jealous of this pretty girl from Virginia. So Letty, one night when she is terrified by a wind storm, and faced, too, with an impossible situation, promises to marry one of the cowboys on a neighboring ranch.

It is a marriage without love on her side and although the man is kind yet he is poor, the life is cruelly hard and barren, and worst of all it is the beginning of a dreadful season of drought.

The story becomes from this point a drama almost Grecian in its simplicity and its personification of the elements, in which the wind—the demon wind—plays the main role. There are points at which the author rises to really fine tragedy, there are points at which the fabric is a little thin.

And in the end after a struggle which wears Letty down as sand grating over stone, the "wind has its way with her." It is not a cheerful picture of pioneering, but pioneering was not arranged like a Sunday School picnic, when after you've had enough you go home, it was a grim struggle for life. "The Wind" gives a vivid sense of that struggle.

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TYPES OF MOTORS FOR AUTOMOBILES

DISCUSSED BY AN EXPERT

Technical Adviser of Y. M. Auto School in New York Writes of Different Kinds of Gas Engines

The following regarding types of automobile motors is by H. Clifford Brokaw, technical adviser, New York City West Side Y. W. C. A. automobile school:

There is no factor in motoring more important than that piece of mechanism located directly under the hood and known as the engine. If the engine does not go the car is quite useless. Consequently, it is important to select a car, equipped with an efficient motor.

It is no deep secret that there are various types of engines used to create power. To begin with it should be known that engine types divide themselves along the lines of arrangement and number of cylinders, arrangement of valves and method of cooling. Most owners of cars will recognize where their own automobile engines come in for classification.

Gas Engine Used Most

Considerably over 90 per cent of the automobile manufacturers in the United States are propelled by the gasoline engine. There are a few that carry storage batteries and use electric motors for motive power. There is a still smaller number that use a steam engine, the steam being generated in a boiler which is heated by burning gasoline or kerosene. The gasoline engine is made in a number of forms ranging from the engine with four cylinders in a line to the twelve cylinders which is the V shaped arrangement with six cylinders on each side of the V. Between these two extremes there is the engine with six cylinders in a line, the eight cylinder with blocks of four placed in the V shaped and eight cylinders in a straight line.

It is because of the smoother running and great flexibility of an engine with a large number of cylinders that pleasure cars employ no less than a four-cylinder engine. Because of the increasing popularity of the six-cylinder type of engine it appears that this type may be destined to be the most desirable in the future. However, one can never tell what the inventive genius of this industry will produce. Those engines with six cylinders or more are usually, though not always, more powerful than the four-cylinder machines. Cars equipped with the greater number of cylinders are easier to drive, vibrate less and provide a maximum of comfort for long tours.

Four Cylinder Motor

The four-cylinder engine, however, is comparatively simple. It has considerable power, sufficient to take a car over any hill. It is a good car for driving about town and for short runs. Because the wheel base is usually short compared to cars with engines of more cylinders it makes a particularly good car for driving in congested traffic.

As to the arrangement of the valves of an engine, some types have both valves arranged on one side of the cylinder, some have one in the top of the cylinder and one in the side, some have both valves in the top and a few have the inlet valve on one side and the exhaust on the other. The arrangement of the valves has considerable to do with the efficiency of the engine, that is, the amount of power which is extricated from the gasoline used.

Much of the heat generated by burning the gasoline is necessarily absorbed through the water jacket which surrounds the cylinder. The engines with the valves in the head valve have a regular shaped combustion chamber which reduces the water jacketed surface to a minimum. Engines with valves on the side of the cylinders have pockets that are offset from the cylinder proper which must be water jacketed. Engines with valves in the head must employ more mechanism for operating the valves than those with the valves in the side.

Types of Motors

The great majority of the engines use valves of the "poppet" type, i.e. valves that are shaped like mushrooms, are pushed open by a cam and are returned to their seat by a spring.

The "Knight" engine does not use this type of valve but uses two movable sleeves that fit inside of the cylinder and on the inside of which the piston travels. These sleeves are operated by eccentrics. They have slots in them that line up with the inlet and exhaust ports at the proper times to permit the inlet and outlet of the gas. These engines have the same efficiently shaped combustion chamber as the "poppet" valved engines with overhead valves.

A large percentage of the automobile motors are cooled by water the cylinders being surrounded by a jacket of water which absorbs the excess heat. The hot water is pumped to a radiator placed on the front of a car which provides for the heat being carried off by the air.

Air-Cooled Type

In the air-cooled motor provision is made for bringing sufficient quantities of air directly into contact with the outside of the cylinders. In this way the excess heat is carried off di-

rectly by the air. The air-cooled engines are a little lighter than the water cooled types and have the advantage of not being susceptible to freezing in the winter time. The water cooling system has in the main proven very satisfactory under most circumstances and continues to be most used.

Every year finds a tendency toward standardization in automobile design. Still there is enough of a variety of types to select from to suit the individual's needs and tastes. The prospective automobile owner will find all types of engines well developed and effective in operation.

OBJECT OF TACTICS OF RAVING SENATOR

Public Averse to Harrison's Attack on Dawes Under Circumstances

The American public believes in fair play. It condemns unqualifiedly the hitting of a man when his hands are tied. This is exactly what was done the other day in the senate when Pat Harrison of Mississippi, boy orator at the New York convention, took occasion to attack Vice President Charles G. Dawes, a veteran of the World war who served while Harrison was safely ensconced in a seat in the senate or was spending his time in the wilds of Mississippi.

It is true that Harrison made his speech in the guise of a humorous dissertation, but it is quite characteristic of the distinguished, learned gentleman from Mississippi to pursue just such tactics; so, if called to account, he is in a position to take refuge in saying that his remarks were merely in a jocular vein, but, nevertheless, in his speeches, and this is not the first one of this kind that Harrison has delivered, there is an undercurrent of spite. Harrison has adopted these tactics in the senate before and, while he smiles when he delivers these bits of alleged wit and sarcasm, nevertheless there is apparent venom back of that grin.

Whether or not one agrees with Vice President Dawes in his desire to change the rules of the senate, the fact remains that the attack of Harrison was a cowardly one, for the rules of the senate do not permit the vice president to speak on the floor of the senate. It was like tying a man in a chair and then deliberately striking him across the face with a whip.

Among those who complain of the nuisance of barking dogs are the burglar and bandit element.

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