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On the Big Grade

By EUGENE JONES.

CHAPTER IV.

find up supposing! Two lives You go on and dry your engine. For-The dispatcher mopped his face. "No use; none of 'em would go!"

I turned about. There were a couple of firemen who were off duty loungmg along the rail. "Volunteers! Will off r of you fire

But no voice answered. .

-save those people on the Limited. for you. Anybody r. Just remember can fire an oil bur n the Limited-if you care for me, Never before

d an ergineerm stop and hunt u fireman meant certain disaster of the mountain; by going on I might carrying this we

"Risk? I love Jim Duval. Don't you helpless on the runa vay, unable to without him? If we can't save him, we'll save his momory from disgrace What had become of his fireman?

What Is Ether?

sled seience, none has seemed less be inconceivable. easy of solution than that which con- It is called a "fluid," corns the ether of space.

clats that space must be filled with miles a second in its i drney around something of a material nature. It the sun, does not disturb the ether in cannot be seen, or felt, or perceived the slightest degree. It it did so, the by any of our senses; but it must exist light waves that come else how could energy be transmitted stars would be disturbed.

These are forms of energy, and so like- energy on which all terr strial activity wise is electricity. Energy must have depende? Science believes that now, a vehicle for its transmission. We for the first time, it is alle to give an know that waves of light from the sun answer to the question impinge upon the retina of the eye. They are called light waves, but, of which everything in creation is made, wide and miles long. Any creature

There is a substance that fills all of it. space. We cannot perceive it because | Material bodies of all linds are comit has no molecular structure. It con- posed of molecules. To se molecules tains no atoms. But we do know that are made up of atoms in various ar-

length and measured velocity. This substance, called the 'Sumi- which are revolving' afferous ether," is absolutely trans speed. parent, as we may judge from the fact were made up of molecules, like ma- ether.

Of all the mysteries that have pur-terial bodies, such transparency would

flow. Apparently it is 3 atlonary. The It has long been obvious to physicarth, travelling at a speed of eighteen

What, then, is this stange interstel-We get light and heat from the sun. lar substance that transmits the solar beast or reptile will flee before this

cept the bones and the skin.

fuge in the nearest river.

Twelve officers hold the

Poland, the recreated State.

tion of 21,000,000.

In the forests of Africa a dreaded

insect is the bull-ant. Every kind of

tives overtaken by them will seek re-

Field-Marshal in the British Army, the

only non-British holders being Mar-

simi Foch and the Emperor of Japan.

of 120,000 square miles, with a popula-

Minard's Liniment Relieves Colds, etc.

The ether is the supstance out of are made of it; you your self are made

to elastic; it has waves of known rangements. Each atom contains a less or greater number al "electrons,"

Molecules differ; atoms differ; but that light comes through it to us from the elections are all entity the same stars at unfathomable distances. If it substance. They are tiny packages of

A PARADISE FOR SKI-MEN



A Paradise for Ski-men.

Preparations are already being made or the annual carnival to be held at Banff amidst the glories of the Canadian Pacific Rockies. Banff is ideally situated for winter sports and this season the dates have been fixed from January 29th to February 5th inclusive. The Secretary writes that the programme is to be considerably extended. He says:

"Our Ski Hill has now been completed in accordance with the suggestions made by the world's champion, Anders Haugen, of Brooten, Minn., and we are confident that a new world's record will be established on our Hill been placed in such a predicament. To this Carnival. We have decided to offer a substantial cash prize to the man on the big grade! What a situation when we were silence greeted me, suilen, thamefaced refusal. My eyer became doing sixty-five, notes an hour. At blurred; the blood was pounding at hour temples, my firsts aching to strike but, to feel quivering flesh beneath them. Perhans I was a little crazy of our passing old hinety-nine sway-

Canada, of Calgary, the Patricias, also different sports indulged in, and it

Give it to her!" I yelled. "All she'll fake!" Then, as the yard lights slip- ball.

South Africa ants are amazingly mercus and are a danger to man. The red ant is a typical solder; he had no means of telling. Yet surely she realized the old; against with them up would have taken as a reck just under the beam as steady limited. The rough them were left to feed him! If he were left to feed him! If he were left to feed him. If he were left to feed him! If he were left to feed hi

is given at once and the whole comceptible to differences in texture. Go the runner out at third; it fails, but munity of ants arises in a body. They to your piece bag and cut squares he is caught a moment later at home set upon the reptile, striking their (patchwork size) of cotton, flannel, plates. The next batter, we will say, snipers into it at thousands of points. velvet, cordurey, burlap, chamols skin, is put out at first, then the other side The attack is made with such splendid leather and silk, to be sorted into has its inning. concentration and in such enormous pieces of each kind, first by touch and sight, then by touch alone. Color of escaping. When the snake is dead the ants will tear off the flesh in small plays come in a natural sequence, empieces, taking all away with them exploying at first only the primary col-

Tiddledywinks Baseball. Tiddledywinks baseball is amusing for a stormy afternoon or for an evening party. The diring-room table, covered with a silence cloth or a thick white tiddledywinks counters serves

shame(re-a) refeated was parently and the state of the control of devers turned. I leapt for the thret- we might find her spatied, whereupon are not so great in this country, nor they hold in their hands, then, when he or the pase runner was and are they particularly flerce, but in they have the idea, doing the same counter in the first-base cup soonest.

South Africa ants are amazingly from piles of their own making. They If the white counter is pocketed first are interested in likenesses and different the runner is out. If the runner lands

ing himself well supplied with attendthe moment awaiting development.

While the other side scrambles for it new prunswich, Adams, 1,602 feet,
he snaps his colored counter on to-Other plays with duplicate spools or ward first, and the runner at first base shire, 311 feet; Quebec, Boundary, blocks introduce the idea of matching hurries on to second. The white countrails called the bulldog ant, because things, selecting one and finding its ter may catch the runner who is going feet; Manitoba, Erickson, 2,053 feet; of its extreme pugnacity. It will fight twin. Then we come to sorting and to second and jump into the cup at Saskatchewan, Senate, 3,171 feet; But anything and avanithing the control of the cup at Saskatchewan, Senate, 3,171 feet; But anything and avanithing the cup at Saskatchewan, Senate, 3,171 feet; But anything the cup at Saskatchewan, Senate, 3,171 feet; Bu anything and everything. If one of here are opportunities for a variety the same time. If it is a tie, the de-heria, Mountain Park, 5,820 feet; British and the same time is a socidentally out in helf here are opportunities for a variety the same time. If it is a tie, the de-heria, Mountain Park, 5,820 feet; British Columbia. these ants is accidentally cut in half, of plays. Mix from the kitchen supply cision goes to the runner. Now the tish Columbia; Stephen, 5,332 feet; one half will actually fight the other closet brown, white, and speckled white counter is rushed back to first, Yukon, Meadows, 2,924 feet. That ants should be able to kill a snake may seem incredible at first.

The from your button box. Children's Another player goes up to the bat. When an enemy is sighted the alarm delicate finger-tips are quickly, sus-

The Empty Spool.

Thread was at first sold in hanks ors, red, orange, yellow, green, blue as knitting wool is now, and ladies The whole secret of home education into little balls. But a progressive had to loosen the skeins and wind it for little children is for the mother to thread manufacturer, James Clark, pest. These ants march through the with play supplies and play suggest to make a few wooden spools in the forests in a column about two inches tions. To meet his needs she has only early eighteen hundreds, and then to get his viewpoint and travel with James Clark himself, to accommodate him the road of investigation and ap- a fair customer, would sit down at a preciation of the interesting world weaver's pirn in his own shop, while she waited, and wind the skein of thread on it for her. He charged her half a cent for this courtesy. When the spool was empty sh

brought it back to him and he wound it full with thread again. The fourth generation of Clarks shawl, is the diamond. Small glass are now making the cotton thread you cups represent home plate, first, set, use to-day. Give the courtly old busi-ond and third bases. Or of the small ness fellow, James Clark, a passing thought when you throw away the

The Latest in Knicting

The Corticell Wool Book, entitled "Fall and Winter Sports, No. I." is chuck full of the niftlest and most up-to-date color illustrations and knitting directions for Winter wear. Capes, vests, scarfs, sweaters, stockings, togues, etc.

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next empty spool. Ladies could not do that in 1812. There were plenty of other things they couldn't do and wouldn't do in those good old days. Thrift came na-

were hard to obtain and dressmakers few in number. When women wove their own clothes and the clothes of frequent change in fashions.

Nature Study in Winter. But no voice answered.

A sudden rage, filled my veins.

Those here?" Tyelled, "You bunch as a sudden rage, filled my veins.

Those here?" Tyelled, "You bunch as a sudden rage, filled my veins.

The here?" Tyelled, "You bunch as a sudden rage, filled my veins.

The here?" Tyelled, "You bunch as a sudden rage, filled my veins.

The here?" Tyelled, "You bunch as a sudden rage, filled my veins.

The here of a food by which the record is broken on our hill. We will also follow the same principle in competent with the amenter champion and the competent with the competent with the amenter champion and the competent with the competent with the amenter champion and the competent with the competition in these items on our programme promise to be very interest them keep records of the planting, ink passed the later in connection with the amenter champion and the present time four different went.

The need for a planting ink passed the present time four different went.

When we passed Bilimore we were a suited. The need for a planting ink passed the later in connection with the amenter champion and the present time four different went.

When we passed Bilimore we were a planting ink passed the later in connection with the are all expected to be on hand and competent with Vancouver and Ottawa given to art and fancy skaling, and a few seeds to planting in given to art and fancy skaling, and a few seeds to plant in the competition in the silence of the Championship of Canada. A very glaborate trophy, together with the are all expected to be on hand and competition in the silence of the champion of the ernment is now at work preparing the nipeg, Calgary, Edmonton and Saska-crying lack of the average Canadian the province.

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CONTROL OF FORESTS BY TRAINED MEN

RECENT ACTION OF GN-TARIO GOVERNMENT.

Places Administration of the Forests on Crown Lands Under Practical Foresters.

The opportunity for the beginning turally and of necessity in a world in Ontario was created by the recent of a new ora in the forestry situation where inventions were not looking to announcement of the Provincial Gove waste and comfort. Wooden spools erument that henceforth the timber were never thrown away; a thimble administration of Crown lands will be lasted a lifetime, and one needle was under the Provincial Forestry Branen, often all a household afforded. It was instead of comprising a separate of kept as carefully as such a treasure ganization, in which no foresters were One bernet, one shawl, one dress did development which has yet linen employed. This is the most important almost a lifetime, too, for materials place in the forestry situation & On tarfo.

By this action, assuming that to logical consequences will fallow, of their families they did not encourage tario aligns herself with the arrows. of Quebec, British Columbia and New Brunswick, which had aiready to Ch nized the needsaity for tailing the me Start the little folks in nature study. for the future by making ferrage, Buy a bulb or two and start them in sponsible for the technical admin and glass bowl of warm water, with a tion of Crown timber lands. A parent sprinkle of sand and a few pebbles in example had been set by the Done the bottom. Have the children watch Government at a still earlier date, who can beat the present world's reof Calgary, a team from Edmonton, a

expected that the fireworks display ward the sharp eyes which see it first. Was placed in charge of the timber

out, no matter what the weather. The tion, to cover all the forested area of

Prince Edward Island is not a forest province practically the whole of her land area being under cultiva-

Beginning of New Era. Ontario is then the last of the forest provinces to recognize the necessary . and logical conjection between forestsy and foresters. The recent action should and no doubt will, mark the beginning of an era in which the faitest practicable consideration will be given to so regulating the mathede of cutting on Crown lands, as to leave them in a condition to produce onother crop of valuable timber species, It has been demonstrated that logging operations in which cutting is not regulated with an eye to fature productivity are generally destructive to the quality and quantity of the future growth. Each drea requires to be carefully studied in advance of cutting, that the method of treatment to be prescribed may be adaptive to local conditions and at the same time by pracimble from the operator's view. point, to say nothing of being reasonble from th Point of Edditional cost involved.

On ario. is to be congratulated upon the progressive action taken in thus far recognizing the need for a technical administration of Crown timber lands. The Provincial Forestry Branch has a great responsibility and a great opportunity for public service in the prospective addition to its previous work of fer st protection, of the inauguration of prestry practice up on the great areas of Crown lards which have now dome under its janisdiction. Progress will necessarily be slow; economic conditions must be fully recognized; and it will take time to develop the kind of organization required for so large a task. Public senting at is now undoubtedly fully ripe for the development of this situation along the most modern lines. It must, however, make itself actively. felt, in support of a really progressive forest policy.

Has the Earth a Tail?

Opposite to the sun there is a very mysterious glowing patch, which is thought to be attached to the earth as comet-like tail.

The highest regions of our atmosphere consist of very light gases, and the impression is that some of these were, driven away by the sun or by other means, and that they stream off from the earth into space just as the light gases do from the head of a large

Naturally, such a heavy has aroused much controversy, and has led to all sorts of ingenious suggestions. One of these is that a swarm of meteors (of the kind we know as shooting stars) keeps us company through. space at a distance of about a million miles, or four times the distance of the moon. But a tailed earth is an ideal vehicle for imaginative flight.

It might be argued that if our globe has a tail why should not the planets Mercury and Venus, and even Mars, have one. Well, perhaps they have, for all we know to the contrary. Our earth's thu would be much more easily seen by us because of its nearness and brightness.

Airplanes to Survey Africa. It is proposed to adapt the acroplane to further, discoveries in Dark out Africa.

Rome Sein Street Refuse. The refuse from the streets of Rome and other Italian cities is sold by ano-

FRANCE RECO MILLIONS I

REPORT OF TH BADEN COMMI

Exposes Huge Rol Soldiers - Restora Booty Secreter in

Elaborate defena,

mans against the

vaders stole everyt

their hands on during the war at treaty of Ve 18.000 L.

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asked the same sponded . "I have come of Baroda," The maharance and with one accord doesn't youth who gave this bea-

ed the most promise of in able ruler of his people. chosen and there was no grot the choice. Have Some Grit.

"Be cheerful, keep smafeg, ... how things are; Be kind, be gentle, and the not seem far. Standing still and moping will help a bit--The folks who're up and doing ar

folks who have some grit From a shark weighing 500 po It is possible to obtain 10 square of leather suitable for boots shoos.