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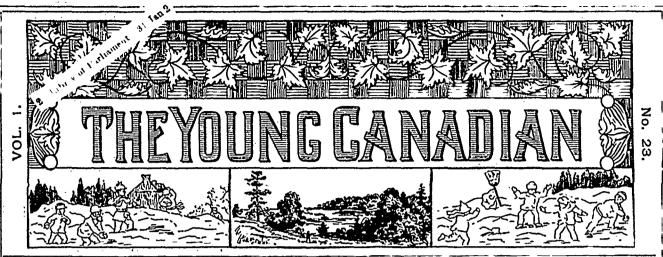
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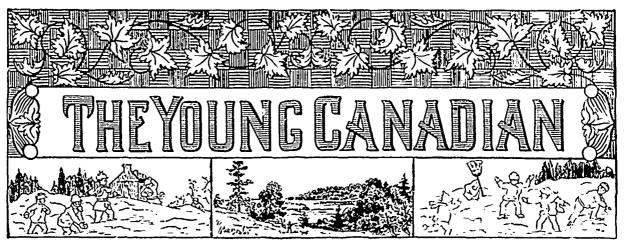
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"THERE IS NOT A BOY HERE WHO LCHOES YOUR UNGENTLEMANLY SENTIMENTS."

NED DARROW;

OR,

THE YOUNG CASTAWAYS.

CHAPTER I.

THE LONG VACATION.

NOTHER cheer for the long vacation, boys! Hurrah!"

The scene was the play-grounds of Professor Ballentine's grammar school for boys at Ridgeland, and the hour five

o'clock in the afternoon of a glorious day in late June.

The occasion was one filled with more than ordinary interest and excitement to the dozen or more lads whose voices joined in an enthusiastic huzza in reply to the sentiment proposed by the best scholar and most popular boy in the academy, Ned Darrow.

"And one for the dear old school and our mysterious journey of to-morrow," supplemented the voice of Dick Wilson.

Again the campus rang with the hearty cheers of the little coterie.

Dick Wilson had struck the key-note of current thought and interest when he referred to "our mysterious journey."

For several years preceding, as some of the older students of the even twenty constituting the school membership well remembered, at every long vacation Professor Ballentine had prepared for his classes a pleasant surprise.

A delightful old man, who ruled his scholars as a father might his children, he had always entered with as much zest into their holiday enjoyments as into their

The academy was one of the best of its kind west of the Mississippi River. The majority of its scholars came from a distance, but a few resided in Ridgeland and its For several weeks youthful enthusiasm had been evoked over the coming vacation, for it was known that the Professor meditated some excursion for his school on a scale that would cast the expeditions of former years completely in the shade.

"I'd give my best ball and bat to know what the Professor's plans are," cried Dick Wilson above the babel of

confused discussion about him.

"It's going to be a regular excursion, and no mistake," remarked Ernest Blake. "For over a week I have been receiving extra money and clothing from home, and my parents wrote me that they would not expect me there this vacation, but told me that I would be under the charge of Professor Ballentine for the next eight weeks."

"The same with me, boys," interjected another voice.

"Eight weeks! It means a long journey."

"If they only make it eighty days, it would give us time enough to go around the world," suggested

"We won't do that," smiled Ned, "but we'll go farther than last year, when we had such a glorious vacation

camping out at Lake Clear."

"Or the year before, when the Professor took the whole school to the dells of Wisconsin," remarked Dick. "I had a peep into the Professor's laboratory yesterday."
'What did you see?" demanded a dozen curious

"Maps and charts, and all marked off as if for a long journey.

"And the railroad agent was closeted with the Professor for an hour yesterday," said Ernest Blake. "The

orders are out to pack up at once.

"I say, boys, was there ever such a jolly old fellow as Professor Ballentine," broke in Dick Wilson, "and his good-natured clerk and brother, Mr. James? There's a satisfaction in learning lessons. Don't you find it so, Ned?"

Ned Darrow flushed with conscious modesty. had that morning received the first prize for scholarship, and his friend's allusion made him the admiring centre

of the group.

Not an envious emotion was visible in a single face. Ned Darrow, accommodating and courteous, had been their acknowledged favourite and leader for many a month.

But Professor Ballentine's grammar school had a rival faction, and the lively personal gossip was silenced as a party of four boys slowly sauntered towards the

The eldest and centre of the approaching group was a lad older and taller than Ned Darrow, and much

better dressed than any of his companions.

His name was Ralph Warden, and although he had attended the school only a few months, he had during that time established an element of dissension and rivalry among the hitherto friendly classes of the academy.

The spoiled, haughty scion of an aristocratic family, he had made himself intensely disagreeable on many occasions, and was generally avoided, except for a few chosen companions. He seemed to possess an especial dislike for Ned Darrow, and his ill-timed sneers and quarrelsome disposition had a tendency to repress the vivacity of the group as they saw him approaching

His face showed its usual haughty expression of assumed superiority, and as he passed Ned Darrow by with a glance of indifference, it was manifest to his companions that the prize Ned had received for scholarship rankled in Ralph Warden's heart.

"What's going on?" demanded the latter of Ernest "You're making noise enough to welcome the Blake.

President."

"We're worked up to the highest pitch of curiosity as to the Professor's intended trip to-morrow," responded Ernest heartily.

Ralph smiled contemptuously.

"Humph! Going wild over some penny trip of ten

miles," he ejaculated.

"You'll find it a pleasant trip if it resembles that of last year," ventured Ned Darrow, refuting Ralph's slur on their yearly expedition.

"You have the advantage of knowing that, perhaps," sneered Ralph, turning a glance of dislike on the

"Why should I?" demanded Ned.

"Because you're in all the old fogy's secrets."

"What old fogy?"

"The Professor."

"Shame!" murmured several voices.

"Oh, don't play the hypocrite," cried Ralph in a bullying manner. "The Professor gets paid for all he does for us. Don't mistake his kindness of heart for services. I said you were in his secrets. everybody knows that. You ain't thick with your crony, his brother, Mr. James, for nothing.'

There was no comment on Ralph Warden's words now. A dead silence had fallen over the group. In Ralph's disagreeable manner the boys traced an incipient quarrel, and stood mute, fixedly regarding Ralph and

Ned as they faced each other aggressively.

"Ralph Warden," Ned said steadily, after an ominous pause, "there is not a boy here who echoes your ungentlemanly sentiments against the kind Professor we all love and respect, nor do I believe one can be found who believes your unjust accusation against myself. You want to quarrel with me."

"You're too much of a coward to fight," taunted Ralph, clenching his fists menacingly as a murmur of

approval of Ned's words reached his ears.

"I'll save my courage for something better than a play-ground brawl," replied Ned calmly. "Come, boys, we won't mar a happy day by keeping up this useless

Ned turned on his heel with quiet dignity as he spoke. Ralph Warden flushed with anger as he observed the willing desertion of a majority of the boys to Ned's

"You imagine you own the school and the boys in it because you took a prize in scholarship," cried Ralph spitefully after Ned. "You are rather high-toned for a charity scholar.'

Ned Darrow turned as though stung by a serpent. The declaration was a startling one. His face paled quickly, and in a voice a trifle husky with emotion he demanded sternly-

"Ralph Warden, what do you mean by that?"

"I mean what I say."

"You call me a charity student. I do not choose to allow a statement like that-

"Beggars should not be choosers," interrupted Ralph savagely, in a reckless tone of voice. "My father, as a trustee of the academy, sees the books, and your tuition has not been paid for six months."

"I do not believe you are telling the truth."

"Then go and ask your particular friend, Mr. James."

The boys had listened breathlessly to the conversation. They were still silent as Ralph Warden turned to leave

"If what you say is true," they heard Ned say, in a strangely agitated tone, "there is far less disgrace in the fact than in your vindictive attempt to humiliate m If I am a charity student, I will not remain so long, Raiph Warden; no, not while industry and honest endeavour can keep me from being what, to your shame, you term me-a beggar!"

With head erect, compressed lips and pale face, Ned Darrow left the campus. He did not pause to analyze

his emotions, or to give way to them.

Straight to the office, attached to the recitation-room,

When Ralph Warden had termed Ned a favourite of James Ballentine- a sort of clerk and under-master at the academy-he was not far off in his surmise.

There were many reasons for this. Mr. James' position in the school was far from being a pleasant one. He was under considerable restraint from his brother, and his easy-going manners and simple, unsuspicious mind had made him the object of more than one practi-

cal joke at the hands of the students.

A placid, quiet sort of a man, Mr. James exhibited but feeble will-power in guiding the boys. In fact, he rarely interfered with their pranks. Weaknesses and characteristics of excellence were passively displayed to the casual observer, but Ned Darrow was in Mr. James' confidence, and the fact that he knew some of his failings, and, young as he was, had become a companion and counsellor of his more mature friend, constituted a bond of union between them.

"Oh, Mr. James! can I see you a moment?"

The nervous under-master turned sharply, disagreeably startled at Ned's abrupt call, but a smile of genuine pleasure crossed his sallow face as he recognized his young friend.

"I know what you want!" he cried in a playful tone. "Want to pump me about the vacation trip. It won't do, Ned, you'll have to be patient—why, lad! what's

He stopped his bantering talk suddenly, as he noticed his companion's pale and serious features.

"I want to ask you a few questions, Mr. James,"

spoke Ned earnestly.
"Sit down, Ned," he said. "Now, then, what's the trouble, for you look as if you'd lost the last friend you have in the world?"

"Not so bad as that, Mr. James," replied Ned, with a vain attempt at a smile.

"What is it, Ned?"

"I want to know two things," spoke Ned, in a steady tone of voice. "Am I a charity student at the academy? Is it true that my tuition has not been paid for the last six months?"

A startled, confused look stole into the under-master's For some moments he was silent. His eyes sought the ground, evading Ned's earnest, steadfast glance as evidently he would have avoided a reply could he have done so.

Then, with an apparent effort, he replied in a low, unsteady tone-

"Yes, Ned, it is true."

Ned Darrow was slightly overcome by the unexpected reply of his friend, Mr. James, and sat staring blankly at him for some moments.

"You say it is true," he found voice to utter after quite a lapse of silence. "Oh! Mr. James, why did you not tell me this before?"

The under-master fidgeted uneasily. His face was divided between an expression of restless indecision and sympathy for Ned.

"Because I did not want to spoil your vacation, Ned," he answered finally. "Who told you? What meddling tale-bearer has revealed a secret that was nobody's business but my brother's?"

"It was Ralph Warden."

Mr. James frowned. "Learned it from his father, ch? Well, all I've got to say is that Squire Warden is in poor business-

"Don't, Mr. James!" interrupted Ned. "It don't matter, if it's true, who knows it. There's no disgrace in it, that I see, only it's better I should know where I

stand. Now, tell me all about it.'

"To begin at the first," he said finally, "as you know, two years ago your brother, William Darrow, after the death of your widowed father, placed you here at school. Your tuition was paid in advance, and your brother went to the far West. There he invested his means in business, and your bills were paid up to six months since."

"And then," murmured Ned softly, "my brother died."

"Yes, on his way back to Ridgeland, shattered in health, a broken-spirited, disappointed man. His body was sent here, and he was buried in the churchyard of the village beside his parents."

"But I thought there was some money?"

"Sufficient to pay the funeral expenses--nothing more."

"And you have kept me here at school without compensation?"

"Yes, Ned."

Tears of gratitude stood in Ned's eyes, as he grasped his companion's hand.

"Kept you here, Ned," he continued, "intending next fall to either make you a proposition to do some office work as pay for your tuition-

"Which I would willingly do-

"Or find you employment where you could win your Your brother did leave something else, Ned own living. -a letter and a deed."

Ned looked interested. "A letter and a deed," he

repeated curiously.

"Yes. The deed conveyed a lonely stretch of barren ground on the Tacific coast, near a settlement called Sandy Flat. The letter related his Western experience. He had made money in the West, and had met there a half-cousin, his only relative except yourself."

"Do you know his name?"

"Yes, it was given in the letter. It was John Markham."

"I have heard of him, but never saw him," remarked

"It was an evil day when he met your brother," said r. James ominously. "Because he proved his ruin. Mr. James ominously. He was a heartless, unprincipled schemer. He formed a conspiracy against your brother, while pretending to be his friend, and robbed him of the money he had worked so hard to earn.'

"How did he do that?"

"He and some others purchased some gold and buried it in different places in a worthless hundred-acre piece of land in Sandy Flat. They then induced your brother to visit the place. They dug up the gold. He believed their stories about the fabulous wealth it might produce. He paid all his money and secured a deed. The next day the conspirators disappeared, and your brother learned that the land was worthless.

HOW TO MAKE A FLY-ROD.

BY SAMUEL M. BAYLIS.



RE you a fisherman? I don't mean by this a grand-master in the gentle art, but are you, even as the writer, in the humblest way a disciple of the craft?

Have you been a learner only long enough to discover the wonderful fascinations it offers to all who once enter its mysteries, proving their devotion by life-long service? Do you

feel the stirrings of emotion as you think of the delightful spots you have visited in your search for the scaled and spotted water-sprites; the happy hours spent in camp, canoe, or skiff; in imagination drinking again brimming draughts of Nature's tonic resh from her fountains deep in the solemn woods? Do your fingers tingle with appreciation as you handle the plumed and gilded lures that hang light as thistle-down on the fairy films that bind them to the polished wand, bright as the lance of knight-errant of old, and does your heart respond to the silvery music the whirring reel sings in your delighted ear?

If you possess any of the spirit that animated the gentle Isaak Walton, and now breathes in a multitude of followers in his foot-steps; if you know a good rod when you see and handle it, and believe, or will take my word for it, that one made by your own hands, that you have seen develop under your own eyes by your own work, is productive of many times more enjoyment than the very finest you can get, simply by doing as others do—buying it: if you have but an ordinary knowledge of tools and how to use them, and are possessed of the stick-to-it-iveness necessary to carry you through your self-imposed labour of love, then you are in the mood to listen to a few friendly hints from an amateur possibly no better qualified than you to do what he has done, and now proposes to his brother anglers to attempt.

The first essential requisite in a trout lunch is, of course, trout—the better the trout the better the lunch. The first thing required in making a rod is the woodthe better the wood the better the rod; and for this it is advisable to apply to some reliable dealer in fishing stock for good, selected, seasoned material, even if you have to pay a little more for the choice. As to the kind of wood, the many varieties of fancy woods suitable for the purpose may be narrowed down to two Lancewood and Greenhart. In the opinion of experts, both hold high, of not equal, rank, my own taste leading me to choose Greenhart on account of the handsome graining and rich warm colour when polished. The prime essential, however, is, that the pieces selected should, when worked down to the proper size for the joints, stand a severe test of bending by resting one end on the ground and pushing down the other to form a bow, holding in this position for some seconds, and then suddenly releasing the tension. If the recoil is swift and steel-like, and no departure from the straight is apparent, your wood is first-class, provided, of course, it is also free from knots and sudden cross grains.

We will suppose that it is desired to make a rod of

the ideal standard 8 to 10 oz. in weight, and 10½ to 11 ft. long. Excessive lightness on the one hand is as undesirable as too great length on the other—"backbone" and elasticity within reasonable limits are the essentials to be aimed at—hence the judgement of most anglers would fix the standard at about the figures named, though rods weighing only 4½ oz. and 9 ft. in length are in use and highly praised by their admirers.

It cannot be too strengly insisted upon that in rodmaking, as in fishing tackle of all kinds, your materials should be of *the best*, and any striving for *cheapness* avoided as you would the plague-better *buy* a rod for two or three dollars and have done with it.

The materials required to make a rod of the standard named above, which may be procured of any reputable dealer at a cost of about four dollars, are as follows:

1	piece of	greenhar	t, 14 in	ı, squ	iare and	3 ft.	9 in. l	long fo	or butt.		
1	- 44	"	ġ	"	**	44	"	ŭ	middle.		
2	"	**	ÿ	46	44	"	"	"	tips.		
1	nickel-	plated,	1 "		Reel-S	eat (b	elow h	and).	•		
1	•	4	11 4	•	mnted dowe ted a	l (car		wel- }	for butt.		
1	•	•	44		44		"		" middle.		
ı	•	•	** **		enterin	g fen	ule, f	or ext	ra tip.		
Ĩ	1 doz. No. 3, 1 doz. No. 2, 2 doz. No. 1 Rings and Keepers, (more than required, but useful for repairs).										
2	nickel-	plated si			-	•			-		
1	•	14	in. wi	ndin	g check						
2	4				oppers s		ules.				
1	pot Bes	t liquid ;									
1	Small b	ottle bes	t coach	bod	y varnis	sh.					
1	" v	arnishing	brush		•						
1	1 100-yds. spool, No. A, best scarlet machine silk.										
	1 sheet each, fine and extra line sand-paper.										
	10 yds. Good line for winding hand grasp, colour to tancy.										
- 1	1 lb. each, powdered pumice stone and rotten stone.										

The possession of the necessary tools, work-bench, etc., is, of course, assumed, and expense in purchasing these cannot fairly be charged to the cost of making the rod.



And now to work : commencing with the butt piece, which you will plane down clean and true to a square slightly more than seven-eighths (78) of an inch. Mark off 13 inches from one end to form the butt or handle at which point the diameter is to suddenly diminish to that of the small end of the winding check, and continue to evenly diminish on a true taper to the small end where the ferrule is fastened. To guide you in reaching this result, take the ferrule and mark its circle exactly in the centre of the end of the wood, and plane it down square in a diminishing diameter, say from half an nch at the handle to three-eighths at the small end, to ing care to plane all sides equally so that the diminished size of the rod will spring true from the centre of the butt and taper equally on all sides down to that of the ferrule end. It may be necessary to use your wood-file in working close to the handle where even a small plane cannot well be used. To avoid the strain of planing in the usual way against a bench plug, bore a hole each way through the butt three-quarters to one inch from the end, drive a pin, made of a strong wire nail with the head filed off, in your bench, drop the wood on to this and plane from this hold-fast. Use this method with all the pieces, and

cut off the inch of wood with the holes in it when you set the entering ferrules and reel-scat. After getting down the wood in the *square* to the proper size, allowing for the final scraping, plane the corners off and bring it to a true octagon, then file and scrape to a perfect round

the handle to a size that will allow the reel-seat to be slipped on when ready to glue, and the ferrule end to a diameter that will permit of the ferrule being set in place flush with the wood. You can make a good scraper by taking a bit of broken saw or other flat piece of steel, and, with a rat-tail file, filing on its straight edge three half-circles corresponding to the diameters of the rod at the juncture of the handle, the large ends of the middle joint, and the tips, respectively. These three sizes will give you all you want to use on the rod, and if filed true and held at the proper scraping angle, you have a most useful and handy tool. After scraping down to a perfect round (which may be facilitated in the final stages by imparting a rotary motion to the joint held in one hand while scraping with the other), of the proper size to fit the reel-seat, the winding check, and the ferrules, set these in place, cutting off the surplus inch with the holes in the butt, and fitting with glue. Use care and patience in filing the shoulders on the rod equally all round, so that the ferrule will set true and straight, and



BUTT END FERRULE.

placing it no further on the wood than will allow of the ferrule of the second joint to enter to its full extent without striking the end of the butt piece.

Proceed now to plane down the second joint, from you, by using the pin instead of butting it against any thing, in a true dimin-



ishing taper in the square, from the diameter of the entering ferrule at the large end, to that of the receiving ferrule at the other, then bring it to a perfect octagon and scrape to the round. Cut off the surplus inch with the holes, fit and glue the ferrules true and flush with the wood, carefully setting them so that they will lie straight with the line of the joint, the receiving ferrule in proper position to admit the entering ferrule of the tip without striking the wood of the second joint, nor yet leaving a space between. Treat the tips in the same way, tapering them from the diameter of the entering ferrule down to the insignificant diameter of the top rings, which are not to set in place yet. The tips being so light will require most delicate handling, using your small 3-inch plane adjusted to the finest possible tissue paper shaving. Should the joints in planing take a warp or twist, heat the part over a gas jet or lamp, and work it back to the true, where it will likely remain.

Your rod is now ready to joint and put to the crucial test, from which, if you have done your work carefully, examining every step of the way, planing your joints and setting your ferrules true, you have every reason to believe it will emerge to your entire satisfaction. Jointed together, it should spring from the centre of the handle at a diameter of fifteen-thirty-two seconds $(\frac{1}{3}\frac{3}{2})$ of an inch and diminish in a perfect taper to the tip, each ferrule in place in a perfect line with the rod. Held in the hand at the grasp and tested with a swaying motion, the action should be even, free and elastic, and comprise the whole length of the rod down to the handle, and when fastened by a line at the tip and bent its curve should sweep in a graceful, circular bow. If your rod does all this you may complacently shake hands with yourself and proceed to the next stage of sand-papering and varnishing.

Sand-paper each joint in turn with the coarser paper till all unevennesses are removed, and rub to a high finish with the very fine, taking care not to scratch the polished metal of the ferrules, then rub down with a soft cloth and you are ready for varnishing.

This is the point where your patience will be tried in waiting for the slow-drying coach varnish to do its work; you could expedite matters by using the quickerdrying hard shellac, but at the expense of permanent

excellence and superior finish; don't do it.

Pour out a small quantity of varmsh in a saucer, and thin with a few drops of turpentine till it drops freely from the brush, then apply it evenly in as thin a coat ex you can, just enough to allow of its "flowing" quality to show itself and obliterate quickly all traces of the passing brush marks.

Note this point in varnishing: thin coats, evenly applied, and plenty of them, allowing one to dry hard before applying another on top. Observe this rule and you will go along swimmingly, if slowly; neglect it and you

may have your work to do all over again.

Now tie a string to the metal parts of the joints, fasten this to a hook and hang them up on a line in a room free from dust, out of the way of careless handling, and with plenty of room to allow of free circulation of air about them. Treated in this way, with good varnish, you ought to be able to apply a fresh coat every twentyfour hours, but don't do it till the one is perfectly dry. Apply four or five coats in this way, and then allow the joints to hang for two or three days before proceeding to "rub down," which you will do, first, with pumice stone and water, and then wipe dry and clean; next with rotten stone and water, to be afterwards washed off and dried; next with dry rotten stone, and then polish with a soft linen or silk handkerchief till it reflects your satisfied smiles as you finish this stage of your work.

Allow the pieces to hang for a day or two to thoroughly harden the polish, so as to avoid all danger of "smudging" in the twisting of the joints in the next process of "winding."

Now joint your rod and test its working, twisting the ferrules till you find the proper adjustment that will give the best action and take the truest set, then lay it on the floor with the ring side uppermost, and make a scratch on the varnish where each is to be placed. Put three on the butt piece--one at the junction of the ferrule with the wood, and the others equi-distant between that and the handle; seven on the middle joint—one at each ferrule, and the others equi-distant between; cight on the tips—one at the ferrule, and the others at an evenly diminishing distance apart between that point and the ring top. By placing the rings in this manner on the tip you better distribute the strain on its delicate structure, and by placing a ring close to each ferrule you greatly ease the strain and lessen the chance of breakage at a point where the danger is always greatest,



Having marked the places for your rings in a straight line from reel-seat to tip, proceed with the winding, beginning with the hand-grasp.

It is assumed that you have learnt that essential to an angler's training—the "wind" with "invisible fastening "-if not, don't delay, but get hold of it at once; it is invaluable in neat repairing of broken rods, splicing and ring winding, and, while readily learnt from practical demonstration, is not so easily explained in the space

at command.

Trim 'own the wood of the handle at the "check," so as to make a shoulder to prevent the cord from slipping. Wax the cord you have procured for the handgrasp with bee's-wax, and proceed to wind it evenly and closely round the "grasp" from the check to the reel-



FERRULE PLUGS.

seat, and finish with the invisible fastening. If you use a fine quality of drablinen line for this purpose, you can add to the beauty of the "grasp" very greatly by winding some of your scarlet silk between the turns of the heavy cord.

Now come to the first ring. your spool of silk lightly throughout with bee's-wax, and re-wind on to another

empty one; then, having with a file beveled the end of the keeper to the thinnest possible edge so as to permit the silk to wind more evenly and readily to place, fasten the keeper temporarily in position by a turn or two of thread round the half of it further away from the end at which you begin to wind. Start the winding a few turns distant from the keeper, and wind the silk evenly and closely around rod and keeper up to where it arches to fit the ring, taking care not to overlap, then undo your temporary fastening, bend up the keeper, and continue the winding round the rod under the arch

of the keeper. When you have covered the short distance occupied by the arch of the keeper, insert the ring in place and continue the winding around the other half of keeper and rod, and fasten at a few turns beyond the end of the keeper.



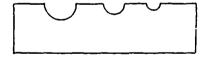
Do not attempt to wind the silk with one hand round and round the rod held in the other, but, having

started the winding properly, hold the silk in one hand and twist the joint round with the other, so as to draw the silk through the fingers which guide the coils to

their place on the revolving rod.

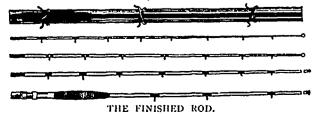
Continue the winding in the same way with each ring down to the ring top of the tip, which you will now cement in position to receive the line from the continuous straight row of rings you have so carefully fastened on., Now burnish your windings with some polishing tool—an old tooth-brush handle is as good as you can use-to remove any unevenness and produce a smooth surface, then give a thin coat of varnish, being careful not to daub the rings, and with a pointed stick





insert a drop of varnish under the keeper. several coats to hand-grasp and windings, after giving plenty of time for each to dry, until you have a number of smooth polished bands around the rod, which, when hard and dry, will be as firm and binding as metal circlets.

With the exception of a grooved wood form fitted to the size of the joints (which you can either make yourself from a piece of soft wood the length of the joints, and one and three-quarter inches in diameter, or buy for a small sum, with a cotton case to slip it into), your rod is now finished ! and my word for it, if you are what I take you to be, the enhanced pleasure you will get out of it will more than repay for all the trouble, and you will esteem it at a greater value than one costing many times as much if bought in a shop.



NATURAL HISTORY FOR THE LITTLE ONES.

ADAPTED FROM JULIA MCNAIR WRIGHT.

MR. AND MRS. SPIDER.

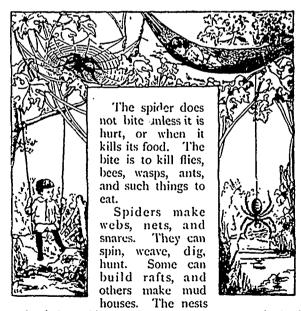
The spider lays eggs. Out of the eggs come little spiders. They grow to be big ones. The body of the insect is soft and hard, and is made in rings. Its skin is tough; it changes its skin often when it is very

The spider has eight legs instead of six, and most spiders have eight eyes. The spider's body is in two parts. The front part is not so large as the hind part. The spider can walk up a wall. The brush on his feet will not let him drop off. He uses his legs to jump and to walk, and to guide his thread when he

Spiders spin webs. The hind part of the spider is large and round. It has six small, round tubes. In the tubes is a kind of glue. When it is drawn out into the air, it gets hard. It is then a fine silk, and as it comes out it is woven into a net which we call a web.

Spiders are of all colours. Their dress is like velvet. It is black, brown, red, and gold. It is in stripes and spots. The spider is like a king in his rich dress. The eight eyes of the spider cannot move. They are set so that they can see every way at once.

While the spider is growing, he pulls off his dress. His skin is hard and tough, and before the baby spiders are two months old, they shed their coats three or four They spin a bit of line to take firm hold of. times. Then the skin on the front part of the body first cracks open; then after this the skin on the hind part falls off; and by hard kicks they get their legs free.



The snares are to catch food. are for baby spiders. The silk of the web is very fine, but it is very strong. It will hold up a big, fat spider. It will hold fast a wasp or a bee. Do you see the spider on his thread? It is his swing. He can swing as the boy does in his rope swing. Do you see the spider lie at rest in his web? Do you see the child rest in a web made of string?

How does the spider make his web? First he finds a good place. Then he presses the end of the tube he spins with, and makes a drop of glue fast to a wall, or leaf, or stem. Then he drops away; and as he goes, the glue spins out in many fine streams, which unite into one, and turn to silk-like thread. If he does not find a good place to make his web fast, he can climb back t

How can be climb back? He runs up his line as fast as he came down. If you scare him, he drops down on his line like a flash. It will not break. If you break it, he winds up the end quickly. Then he runs off to find a new place to which to make it fast. The long lines in the web are called rays. The spider spins the rays first. The rays are spread out like the spokes of a wheel. Webs are of many shapes. You often see the round web. The spider guides the lines with his feet as he spins. He pulls each one to see if it is firm. Then he spins a thread, round and round, from ray to ray, until the web is done.

Airs. Spider begins her lines at the outer edge. They are laid nearer to each other as she gets to the centre of the web. When all is done, she is in the centre, and does not need to walk on her new web. She has a nest near her web. From the nest runs a line. Mrs. Spider can sit in the door of her nest, and hold the line in her claw. When a bug or fly goes on the web, the web shakes. She feels her line move. Then she runs down the line and gets the fly or bug, and takes it to her nest to cat. But before she takes the prey to her nest, she kills or stuns it. Then she winds some fine web about it. She makes a neat bundle of it, and then carries it off.



You can make Mrs. Spider run down her line if you shake the web a very little with a bit of grass or stick. She will run out to see if she has caught a bee or a fly. The nest of the spider is made of close, fine silk. It is like soft, nice cloth. In shape it is like a ball, or a horn, or a basket. Each kind of spider makes its web in the shape it likes best. In the nest the spider lays her eggs in a silk ball. The eggs at first are very soft. After a time they grow harder.

More than two spiders never live in a nest. Often a spider lives all alone. Spiders are often apt to bite off each other's legs. A spider can live and run when half its legs are gone. But it can get a fine new leg as a crab can. When the baby spiders come out of the egg, they must be fed. The mother takes good care of them. They grow fast. When they are grown, they go off and make their own webs. Webs are very pretty, if spiders are not.

Spiders eat flies and all kinds of small bugs. When a fly is fast in a web, he hums loud from fear. The spider will eat dead birds. One kind of spider kills small birds to eat. There is a spider that lives on water. He knows how to build a raft. He takes grass and bits of stick and ties them up with his silk. On this raft he sails out to catch flies and bugs that skim over the water. There is a spider that lives in the water. She can dive. Her nest is like a ball. It shines like silver. Her web is so thick that it does not get wet

When spiders cat, they do not chew their food; they suck out the juice. Spiders are very neat. They hate dust and soot. They will not have a dirty web. If you put a bit of dirt or leaf on the web, Mrs. Spider will go and clean it off. She shakes her web with her

foot until all the lines are clean. If the dirt will not shake from the web, the spider will cut the piece out, and mend the web with new lines.

There is a spider that runs on water. This spider wears shoes. They are shoes made for walking on the water. They are like bags of air. She cannot sink. There is one spider called a trap-deor spider. She lives in the ground. She digs a tube down, and makes her nest deep in the earth. Then she makes a door. It is a nice door at the top of the hole. It has a hinge. It will open and shut. It is like the lid of a box. How does she make this? She spins a thick, round web. She fills it with earth. Then she folds the web over, to hold the dirt in. She makes a hinge of web. This trap-door will open and shut. It is firm and strong. Once a man put a lady-bird at a spider's trap-door. She took it in to eat. She found it had too hard a shell to bite. Then she took it back and laid it out by her door. Then the man put a soft grub by the door, and the spider took that to eat. She did not bring that back. She ate it.

Small spiders will stay by their mother and sit on her back. They act like the small chicks with the hen. Most spiders live only one year. Some live two. Some live over four. Some spiders are so small you can hardly see them. The big ones are black, with spots and stripes, and have thick coats like fur. If you could find a spider, and sit down to watch it build or catch its food, I think you would be happy for a whole day, or for many days.

The tower spider builds over her hole a neat tower two or three inches high; she sits on her tower. She has as many as fifty baby spiders at once. They sit on her back for four or five weeks, until they molt two or three times. They do not fight with each other. When Mrs. Spider gets a fly or bug for the little ones to eat, she crushes it, and the baby spiders come and suck the juice, as she holds the food for them.

A CARPET OF CATS' SKINS.

Spain chastised the Moors five or six years ago, about a disputed piece of property opposite Gibraltar, and captured the city of Tetouan. She compromised on an augmentation of her territory; twenty million dollars indemnity in money; and peace. And then she gave up the city. But she never gave it up until the Spanish soldiers had eaten up all the cats. They would not compromise as long as the cats held out. Spaniards are very fond of cats. On the contrary, the Moors reverence cats as something sacred. So the Spaniards touched them on a tender point that time. Their unfeline conduct in eating up all the Tetouan cats aroused a hatred toward them in the breasts of the Moors, to which even the driving them out of Spain was tame and passionless. Moors and Spaniards are foes for ever now. France had a Minister here once who embittered the nation against him in the most innocent way. He killed a couple of battalions of cats and made a parlour carpet one of their hides. He made his carpet in circles—first a circle of old gray tom-cats, with their tails all pointing towards the centre; then a circle of yellow cats; next a circle of black cats and a circle of white ones; then a circle of all sorts of cats; and, finally, a centre-piece of assorted kittens. It was very beautiful; but the Moors curse his memory to this day.

"Boots soled and heeled while you wait." Quite right. We have waited three weeks, and they are not home yet.

The Young Canadian

IS A HIGH-CLASS ILLUSTRATED WEEKLY MAGAZINE FOR THE YOUNG PROPLE OF CANADA.

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THE YOUNG CANADIAN CO.,

BOX 1896.

MONTREAL

DOMINION DAY.

National holidays are like the memorial stones set up by the Children of Israel after crossing the river Jordan. set up in order that those who come after them may ask, "what do these things mean?" Twenty-four years ago our fathers appointed the first of July a national holiday and called it Dominion Day. To very many we fear Dominion Day means just a holiday, a day of pleasure, a day for an outing or an occasion for fireworks and nothing more. We keep holiday on the first of July because twenty-four years ago, that is to say on July 1, 1867. the provinces of Upper Canada (now called Ontario), Lower Canada (now called Quebec), Nova Scotia and New Brunswick were united by the royal proclamation of Queen Victoria as the Dominion of Canada. It was proposed to call the new federation the Kingdom of Canada and the Dominion is really almost an independent Kingdom enjoying the protection of the British empire and a rich endowment of British political institutions. In the days of imperial Rome whenever a new conquest was made, a Roman consul was sent to govern the conquered country according to Roman ideas. Great Britain, greater and wiser than Rome, encourages her distant colonies to govern themselves as soon as they display the strength and capacity for self-government. That is why Canadians are proud to call themselves British subjects and proud of their share in the glorious traditions of the empire. England has sometimes departed from this great principle of equal liberty to British subjects at home and abroad, but always to her own loss. As her greatest poet has written:

This England never did nor never shall Lie at the proud fot of a conqueror But when it first did wound itself-

Come the three corners of the world in arms and we shall shock them, Naught shall make us rue if England to itself do rest but true.

Whatever the political destiny of Canada may be, may she be true to the principles that have made England great, and may Canadians be worthy of their own great country and their own glorious history.

EDITOR'S PIGEON-HOLES.

HERE IS THE GOLD WATCH.

It looks a beauty. Does it not? It was intended for the young Canadian who sent me the largest number

of subscribers on the First of July-Dominion Day.
At the special request of my young workers I have postponed the decision till October First. They could not begin till school was over, they said, and could work twice as well then. Every week send in your names and



addresses, with the money by P. O. Order or Registered Letter. It will all be entered to your name, and kept till the final day. My object in asking you to send them every week is that the new subscribers may get THE Young Canadian at once.

THE EDITOR.

YOUNG CANADIAN HISTORICAL CALENDAR.

JULY.

ì.	Quebec founded by Champlain					1608
2.	Lake Champlain discovered by Champlain					1609
3.	Battle between Champlain and Iroquois .					1609
4.	Three Rivers founded by La Violette .					1634
5.	Lake Huron discovered by Champlain .					1645
ű.	Fort Niagara surrendered to England .					1759
7.	Americans defeated at Oriskany					1777
s.	Mackinaw surrendered to England .					1812
9.	Americans defeated at Lundy's Lane					1814
u,	First Iron Steamer built in Canada, launch	ed.	at	М	ont•	
	real				•	1843
1.	Railway from Montreal to Portland		•			1853
2.	The Great Eastern arrived at Quebec .					1861
	The Atlantic Cable laid					1866
4.	Nova Scotia and New Brunswick confedera	le	d w	itl	the	
	Dominion	•		•	•	1867
5.	Hudson's Bay Territory united to Canada.				•	1870
lű.	Manitoba Province formed				•	1870
7.	British Columbia joined the Dominion .					1871
18.	Prince Edward Island joined the Dominion					1873
19.	Railway from Quebec to Halifax					1876
20.	Canada joined the Postal Union					1878
21.	Lachine Bridge over St. Lawrence opened.					1887

Our young competitors are reminded that their essays must be sent in by July 31st. The Prize for July will be a beautiful patent convertible pen and pencilholder.

HIDE AND SEEK.

A STORY FOR THE LITTLE ONES.

BY AUNT FANNY.

ARRIE'S eighth birthday had come at last, and more than that, all the little girls who were to help her keep the great day had come too, and were now standing by the shady cedar on the sunny lawn, waiting for her to decide what the next game should be.

"The Birthday Queen must choose," said Winifred.

"Yes, Carrie, you must choose; and choose a nice

game," said little Jessie.

Carrie had to think a minute or two: they had already played so many games. They had swung on the swing under the beech-tree, they had run races down the avenue, they had tried to shoot with Carrie's new bow and arrows; and now that they were tired of all these amusements, what could she think of to please her guests?

"Shall we have forfeits?" suggested Carrie.

"No, no: that is such a quiet game," said a little romp whose name was Jenny, but who was far oftener called Jemmy, on account of her boyish ways. "Let's have

something stirring, please, Carrie dear.

"I know what we will have," said good-natured Carrie; "we will play hide and seek. There are splendid hiding-places among the trees and bushes in the garden, and there is plenty of stirring for you in that game, Jenny.'

All the children were pleased with this proposal, and first one hid, and then another till it came at last to Jen-

Now Jenny had determined her hiding-place should not be easily found, and she had settled some time before where it should be.

In a lonely part of the garden stood a summer-housea large room, with a room over it in which the gardener kept bulbs, and labels, and anything he wanted out of the way. This room was seldom used even by him, and it could only be reached by a ladder from the outside. The ladder was now standing there, for the gardener had just been to the loft to fetch some nails, and had left the ladder, intending to take it away when he left off

This loft Jenny had fixed upon as her hidingplace, and she now skipped up the ladder as

lightly as a cat, and reached the loft in safety. She crept into the furthest

corner of the room, pulled a hamper in front of her, and covered over her white frock with an old peach-net that lay on the floor. " Now they will never see me if they do come here, she thought.

By-and-by she heard the children running up and down the garden looking for her. They

peeped in the bushes, they gazed up the trees, they hunted every nook and corner of the garden, but no Jenny could they find.

They were quite tired out at last, and seeing the gar dener, who was coming to fetch away the ladder, they asked him if he had noticed a little girl hiding any-

No, Giles had seen no one. "She isn't up the ladder, think ye?" said the old man.

"Oh no! she daren't go up there," said timid Wini-

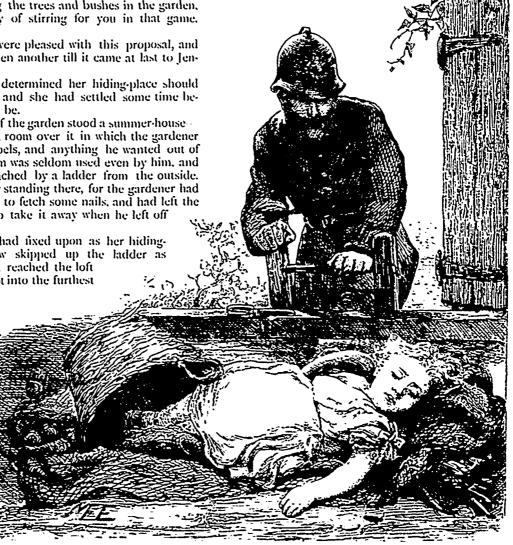
"She dare go anywhere," said Carrie. "Please, Giles, just go up and see if she is in the loft."

"I'll go for ye, Miss Carrie," said he, "though I hardly

think the little missy would get so high."

Up climbed Giles, but Jenny was so well hidden by the peach-net that he thought the room empty. "There's naught here," he called to the expectant children at the foot of the ladder.

Meanwhile, Jenny was shaking with laughter at her cleverness in taking in the old gardener, and was so amused at it that it was some minutes before she remembered he would take away the ladder, as it was his time for leaving off work. So, cautiously raising herself from the floor, and throwing off the thick covering of peachnet she got up. But where was she? what had hap-



JENNY'S HIDING PLACE.

pened? All was dark as night, and yet it was a June afternoon. She could see nothing; all around was black darkness, except a few rays of light peeping through a crack in the door.

Then the truth flashed across her. The gardener had closed the door of the loft when he left, and here was she shut up in a dark room far away from every one! There was no way of getting out; the door was fastened outside, and there was no window.

Poor little Jenny! What could she do? She was a brave little girl, and did not despair all at once. She banged away at the door with her tiny fists, but Giles had shut it too well for her little force to open it; so then she raised her voice, and cried—"Carrie!" till she was hoarse.

That, too, was useless; the walls were so thick that her voice could not be heard beyond them, and besides, there was no one near. The children had gone away to look elsewhere for her; and at last the poor child, tired out with knocking and screaming, sank down on the floor, and sad tears now would force their way from her eyes.

Meanwhile, the children had given up looking for Jenny. They had shouted to her to come out, they would look no more; but finding that even these messages did not bring her, Carrie ran into the drawing-room, where her mother was writing.

"Mother, mother!" cried the child, "Jenny is lost.

We cannot find her anywhere."
"Lost! nonsense!" said Mrs. Leigh, smiling. "No one can be lost in our garden."

"But she is lost," persisted Carrie; "I am sure she is." And the tender-hearted child burst into tears.

"My darling, do not cry on your birthday," said Mrs. Leigh, kissing her, "I will soon find Jenny for you. Dry your eyes, Carrie, and go in the schoolroom. I will send the others to you, and old nurse shall tell you a story until I come back with Jenny.

Mrs. Leigh left the room, and telling nurse to keep the children amused until she returned, she went into the garden to find the little truant. She was, however, no more successful than the children had been. She went to the summer-house; but at that time Jenny was sobbing on the loft floor, and did not hear Mrs. Leigh's gentle voice calling "Jenny! Jenny!" So that chance

Mrs. Leigh at last became really anxious. Where, thought she, could the little girl be? There was no river for her to have tumbled into. Could tramps have passed and taken Jenny for the sake of her clothes? Mrs. Leigh remembered seeing a gold locket and chain on the child's neck; could she have been stolen? The thought made her shudder. No, it could not be. There was no public road near the garden, and any tramp wishing to go up the avenue would have been turned back at the lodge. Then where was Jenny? Mrs. Leigh could not imagine, and tired of useless searching, she made up her mind to visit the village policeman, and ask his advice in the matter. So, resolved to lose no time, she left the garden, and walked quickly to the cottage where the policeman lived.

He was enjoying a rest in his garden when Mrs. Leigh

"Johnson," began Mrs. Leigh, hurriedly, "I want your advice. My little girl has had a party this afternoon, and she and the children have been playing hide-and-seek, in the garden, and one of them is lost—little Miss Lawson. We have looked everywhere. What must I do?'

The policeman thought a moment, and then, assuming his professional voice, said-"I will come and view the premises, ma'am, and then I shall be able to decide what is best to be done in the case."

Johnson loved a "case," and was ready in a few minutes to accompany Mrs. Leigh to the Hall, taking with him Boxer, a clever sheep-dog.

They reached the garden, and Mrs. Leigh showed him

the spot whence the child had started.

"We know she went past here," she said, "for one of the children found her scarf, which she must have dropped as she ran."

"Would you let me have the scarf a minute?" asked the policeman, respectfully; and taking the scarf in his hands, he called—"Boxer! Boxer!"

The dog came instantly at his master's call, and showing him the little pink scarf, the policeman trailed it along the ground, saying--"Go seek, Boxer!'

Off ran Boxer, with his nose to the ground, and Mrs.

Leigh and the policeman followed.

The dog stopped outside the summer-house, but search

as they might, no Jenny was to be seen there.

"The dog must have made a mistake," thought the policeman, as he again searched the empty room; "but I never knew it at fault before." Then addressing Mrs. Leigh, he said—"There is no secret cupboard here, is there, ma'am, that the young lady could have crept into?"

"No, there is no cupboard," said Mrs. Leigh, sadly, feeling another chance gone now the dog had failed. "We keep nothing here. There is the loft above, where old Giles keeps his nets, but how could the child get there?"

It did not seem possible; but as the dog still remained rooted to the same spot the policeman resolved to see what there was in the loft; so, fetching a ladder, he climbed up, opened the door, and there on the floor lay Jenny, tired out with grief and tears, and fast asleep. He took her carefully up in his arms and carried her down the ladder. Mrs. Leigh, who was more thankful than words can say, took the little girl from him and laid her gently on the summer-house seat. Jenny was awake now, and, seeing the policeman, clung tightly to Mrs. Leigh, and implored her not to send her to prison.

Mrs. Leigh did her best to comfort the frightened child, and assured her that they were too pleased to have found her to think of sending her anywhere.

"We will not even send you home till you have had supper," she said, gaily. "Come along, let us go in; the others will be tired of waiting, and there is the birthday cake to be cut."

So Jenny at last let herself be comforted, and went with Mrs. Leigh into the house, where she was rapturously greeted by the children, who had given her

up for lost. "Well, children, you see I have found Jenny for you; so come to supper now, and Jenny shall have the place of honour next me, for I believe she is the only little girl who was ever 'lost in a garden.' "

BETTER UNSAID.

The first Lord Eldon, in one of his shooting excursions at Wareham, came across a person who was shooting on his land without leave. His lordship inquired if the stranger was aware that he was trespassing, and if he knew to whom the estate belonged. "What's that to you?" was the reply. "I suppose you are one of old Baggs' keepers." "No," replied the peer, "your supposition is wrong, my friend: I am old Baggs himself."

CAT-TAILS.

'Twas a group of merry children, And, the marshes going by, One boy shouted—"See the cat-tails! See the cat-tails, nice and high!"

Then a wee tot, from the city,
Said, with brimming eyes of blue:
"What a shame it was to drown them!
Did they drown the kittens too?"

GEORGE E. COOPER.

IN THE AZORES.

The community is eminently Portuguese - that is to say, it is slow, poor, shiftless, sleepy, and lazy. There is a civil governor, appointed by the King of Portugal; and also a military governor, who can assume supreme control and suspend the civil government at his pleasure. The islands contain a population of about 200,000, almost entirely Portuguese. Everything is staid and settled, for the country was one hundred years old when Columbus discovered America. The principal crop is corn, and they raise it and grind it just as their great-great-great-grandfathers did. They plough with a board slightly shod with iron; their trifling little harrows are drawn by men and women; small windmills grind the corn, ten bushels a day, and there is one assistant superintendent to feed the mill, and a general superintendent to stand by and keep him from going to sleep. When the wind changes they hitch on some donkeys, and actually turn the whole upper half of the mill around until the sails are in proper position, instead of fixing the concern so that the sails could be moved instead of the mill. Oxen tread the wheat from the ear, after the fashion prevalent in the time of Methuselah. There is not a wheelbarrow in the land—they carry everything on their heads, or on donkeys, or in a wicker-bodied cart, whose wheels are solid blocks of wood, and whose axles turn with the wheel. There is not a modern plough in the islands, or a threshing-machine. All attempts to introduce them have failed. The good Catholic Portuguese crossed himself and prayed God to shield him from all blasphemous desire to know more than his father did before him.

The climate is mild; they never have snow or ice, or chimneys in the town. The donkeys and the men, women and children of a family, all eat and sleep in the same room, and are unclean, are ravaged by vermin, and are truly happy. The people lie, and cheat the stranger, and are desperately ignorant, and have hardly any rever-ence for their dead. The latter trait shows how little better they are than the donkeys they eat and sleep with. The only well-dressed Portuguese in the camp are the half a dozen well-to-do families, the Jesuit priests, and the soldiers of the little garrison. The wages of a labourer are twenty to twenty-four cents a day, and those of a good mechanic about twice as much. They count it in reis at a thousand to the dollar, and this makes them rich and contented. Fine grapes used to grow in the islands, and an excellent wine was made and exported. But a disease killed all the vines fifteen years ago, and since that time no wine has been made. The islands being wholly of volcanic origin, the soil is necessarily very rich. Nearly every foot of ground is under cultivation, and two or three crops a year of each article are produced, but nothing is exported save a few oranges—chiefly to England. Nobody comes, and nobody goes away. News is a thing unknown in the Azores. A thirst for it is equally unknown.

HE FILLED THE PITCHER AND THE "BILL."

Farmer Crane has some very unique methods of examining the men who apply to him from time to time for work.

One evening a tall, big-boned fellow, in his shirt sleeves, asked Crane if he had any work to do.

"I don't know," said the farmer. "Can you tend horses?"

"Yes, indeed. I've worked about horses all my life."

"Come around here to the pump," said Crane, and led the way to a common sucker rod pump near the barn. Going inside he got a long, narrow pitcher, and placed it under the spout. "There," said he, "pump that pitcher full of water." The big-boned fellow complied, carefully pumping the pitcher full without spilling a single drop.

"That'll do," said Crane. "Go inside and get ready for supper: I'll give you a job in the morning."

About a week later the big-boned fellow asked Crane what pumping the pitcher full of water had to do with

his getting a job.

"Well, I'll just tell you. This is mighty dry weather, and water is getting scarce. You must have thought that far, for you didn't spill any water. If you hadn't pumped hard the water would have been spilled, and if you had pumped too hard the water would have gone over the pitcher. Now, the way I argue is this: If a fellow don't pump hard enough he won't work hard enough. If he pumps too hard he'll work too hard for a little while, and I don't want either kind to work for me. You pumped exactly right, and you got a job."

WHAT NEXT?

The latest atrocity is the "sleep-fasting contest," in which a number of idiotic people try which can stay awake longest. A recent show of this sort at San Francisco ended in W. C. Woodford, the only competitor who remained awake, being forced to retire by the management, the physician having declared him in danger of losing his reason. Woodford had been without sleep for 158 hours and 48 minutes when finally compelled to close his eyes. For this performance he is rewarded by \$100 and the "championship" in this branch of sport, the previous record being 144 hours and 20 minutes, at Detroit. The men who took the second and third prizes (\$50 and \$25) had given in after 95 hours. It is said that Woodford will now, thanks to the interference of the management, continue sane, at least as sane as he could have been before.

IN THE SCALES.

Professor Mosso, an Italian physiologist, may be said to have weighed thought. He has shown by experiment that thinking causes a rush of blood to the brain, which varies with the nature of the thought. Mosso proved it by balancing a man in a horizontal position so delicately than when he began to think the accession of blood to his head turned the scale. When the subject was asleep, the thoughts or visions which came to him in dreams were sufficient to sink his head below his feet, and the same thing took place place when he was disturbed by a slight sound or a touch. The balance even indicated when a person was reading Italian and when Greek, the greater mental exertion required for Greek producing a greater flow of blood to the head.

WHAT LADY IS SHE.

Did you see a little lady
Pass you by without a bonnet,
In a robe of crimson satin,
With some pretty dots upon it?

All the day she haunts the garden, 'Mid the roses, pinks, and lilies, Under cooling leaves she loiters, When the drowsy noon so still is.

Then, on busy quest, she hurries
Till the dewy twilight closes;
Bees may hum, and birds may carol,—
She's as quiet as the roses.

Other ladies have their mansions;
But a lily's lighted chalice
Is a lovely home to live in,—
That's my Lady Bug's own palace.

GEORGE COOPER

THE RIGHT WAY.

A boy of seven years was reading in a corner of the parlor where his mother was in earnest conversation with a gentleman, her guest for the evening. Presently the boy, without looking up from his book, asked the meaning of a word. The mother instantly excused herself to her visitor, leaned over the boy and gave the required answer, then, seeing that the sentence containing the word was somewhat involved, its meaning hanging on a full understanding of the word in question, she opened an unabridged dictionary, bade her son read the definition carefully, and 'afterward explained the sentence to the boy's perfect understanding. As she resumed her seat she apologized for the interruption to their conversation, and her guest, who had been an eminent teacher for many years, earnestly responded:

"No apology is necessary, madam, and I must be allowed to express my unqualified delight in this little incident. The time to answer a child's question is when he asks it, and while his mind is open to receive information. Your son will probably never forget the definition of that word."

DO NOT SIT ON YOUR FOOT.

Who has not seen the ungraceful practice! Once acquired, the trick becomes second nature. With a cunning twist of the body, and a little side switch of the skirts, the feat is accomplished, and quicker than thought. The girl curls herself up in a kittenish sort of way, and with such an air of content that few have the heart to find fault. The habit, once established, is apt to stick, even on into more discreet years. In the days when the small steel skirt was an important part of woman's attire, a lady took her seat in a horse car, and, without a moment's thought, deftly curled up one foot beneath her. When she arrived at her destination, she signaled the conductor to stop the car and attempted to rise, but found that her foot had become entangled in one of the steels of the wretched skirt. What to do she did not know, but finally, finding that she was becoming a target for all the eyes in the car, she concluded to ride on, not daring to make a second move until she reached the stables. From that day to this she never attempted to sit on her foot.

HOW I BOUGHT MY GLOVES.

Every now and then, my glove purchase in Gibraltar intrudes itself upon me. Dan and the ship's surgeon and I had been up to the great square, listening to the fine military bands, and contemplating Spanish female loveliness and, at 9 o'clock, were on our way to the theatre, when we went over to a little variety store, to buy some kid gloves. They said they were elegant, and very moderate in price. It seemed a stylish thing to go to the theatre in kid gloves, and we acted upon the hint. A very handsome young lady in the store offered me a pair of blue gloves. I did not want blue, but she said they would look very pretty on a hand like mine. The remark touched me tenderly. I glanced furtively at my hand, and somehow it did seem rather a comely member. I tried a glove on my left, and blushed a little. Manifestly the size was too small for me. But I felt gratified when she said:

"Oh, it is just right!" - yet I knew it was no such thing.

I tugged at it diligently, but it was discouraging work. She said:

"Ah! I see you are accustomed to wearing kid gloves—but some gentlemen are so awkward about putting them on."

It was the last compliment I had expected. I only understand putting on the buckskin article perfectly. I made another effort, and tore the glove from the base of the thumb into the palm of the hand—and tried to hide the rent. She kept up her compliments, and I kept up my determination to deserve them or die:

"Ah, you have had experience!" (A rip down the back of the hand.) "They are just right for you—your hand is very small—if they tear you need not pay for them." (A rent across the middle.) "I can always tell when a gentleman understands putting on kid gloves. There is a grace about it that only comes with long practice. (The whole afterguard of the glove "fetched away," as the sailors say, the fabric parted across the knuckles, and nothing left but a melancholy ruin.)

I was too much flattered to make an exposure, and throw the merchandise on the angel's hands. I was hot, vexed, confused, but still happy; but I hated the other boys for taking such an absorbing interest in the proceedings. I wished they were in Jericho. I felt exquisitely mean when I said cheerfully:—

itely mean when I said cheerfully:—

"This one does very well; it fits elegantly. I like a
glove that fits. No, never mind, ma'am, never mind;
I'll put the other on in the street. It is warm here."

It was warm. It was the warmest place I ever was in. I paid the bill, and as I passed out with a fascinating bow, I thought I detected a light in the woman's eye that was gently ironical; and when I looked back from the street, she was laughing all to herself about some thing or other.—Mark Twain.

THE nautilus is nothing but a transparent web of jelly, that spreads itself to catch the wind, and has fleshylooking strings a foot or two long dangling from it to keep it steady in the water. It is an accomplished sailor, and has good sailor judgment. It reafs its sail when a storm threatens or the wind blows pretty hard, and furls it entirely and goes down when a gale blows. Ordinarily it keeps its sail wet and in good sailing order by turning over and dipping it in the water for a moment. Seamen say the nautilus is only found in waters between the 35th and 45th parallels of latitude.

A LONDON EAST END HEROINE.

Not long ago a lady called on a public officer in London, England, and informed him that a woman, the mother of four children, was dying of starvation at 3, Medway street, Bethnal-green. The street is not what is called, in the gruesome language of the East, a "pauper's street," and the house in question looks anything but poverty-stricken. But in it, in an upper room, the relieving officer and the parish doctor, when they entered it late at night after having overcome the landlord's remonstrances, found a woman lying on the only bed, in the corner of the room. She was surrounded by three pale-faced children, and was slowly dying. She had no pain. There was no disease; but she was gently sinking into her last sleep, the last stepping-stone to death by starvation. Benjamin Burrett, father of her four children, had left her; since Christmas they had not seen him.

The little lad, the eldest of the four children, earned 6s. a week as a printer's boy, and it was out of his earnings that the family paid their 4s. 6d. a week for their room, and spent the rest for food and light clothing. Morning after morning George, white and stunted and hungry, but never dismayed, walked to the City to his work, and when, at night, he got back, his mother made some pretence at sharing her little starvelings' meal of bread and margarine. This was the fare on which they had lived since Christmas. When George picked up a penny or two beside his weekly earnings, he brought some dainty home for his mother to tempt her failing appetite. But she was never hungry, and after a while she took to her bed, uncomplaining, but too weak to rise. George toiled on, and, obedient to his mother's words. told no one how ill she was, and how poor they were. When medical aid arrived, when blankets were sent, and food, and help, it was too late. A dazed "yes" or "no" was all the poor woman said in answer to the doctor's question, and three days later George, going to his mother's bed early at 6 A. M. before he went to work, found her dead.

The three younger children, aged respectively twelve, ten, and eight, were taken to the workhouse. Emma Burrett, like many another deserted and starving Eastend mother, had died of hunger in order that her little ones might have a better chance of being kept alive.

THE SEAL AT HOME.

Every spring the seals appear in droves from their unknown winter quarters, and settle down on the Pribylov Islands, some 200 miles away from the mainland of The males come first, accompanied by the young seal pups born during the previous summer, and choose their respective homes on the rocks. The females follow three weeks later - meek little creatures, in steel gray garb, very different from the big brown male seals, with their fighting propensities. Often one seal possesses twenty wives, and he has hard task to defend his home and family from his neighbors. Indeed, the old seals fight like furies, becoming covered with scars and terrible wounds, and sometimes losing an eye or a part of a flipper in the fray. Most of the fighting is done by the mouth. The combatants approach each other with averted heads and sly looks, till suddenly they utter a shrill piping whistle, and engage with their sharp canine teeth. The hair flies and the blood flows amid much furious bellowing. The young bachelors - from one to five years old—herd together in their own quarters at a respectful distance, till they are strong enough to fight for wife and

YOUNG CANADIAN TANGLES.

ANSWERS TO TANGLES.

(No answer to No. 16.)

TANGLE No. 17.

TANGLE No. 18.

GEOGRAPHICAL "DIAMOND" PUZZLE.

X X X X X

X X

(Answers in No. 25.)

Prize for the best solutions in July-"Our Homes," a book of 150 pages, on the healthful management and arrangement of the home. We publish on Wednesdays, and competitors are reminded that their answers must be mailed before the Wednesday in which the solutions appear. In all cases they must be mailed, and post marked before the answers appear.

Address solutions to

Tangle Editor, Young Canadian, Box 1896, Montreal.

Ropics of the Day ABROAD.

THE ROYAL NAVY EXHIBITION.

The Royal Naval Exhibition, opened by His Royal Highness the Prince of Wales last month at Chelsea Hospital, is the attraction of the summer. Few things go so far to make a successful exhibition as ships' models, torpedoes, guns, and the varied and wonderful instruments that have made our Mother Country supreme on the seas. The crowd of visitors is so great that the exhibition will remain open till October.

Three hundred thousand dollars have been expended upon it, but it is quite expected that not only will this enormous sum be drawn in again, but that a large surplus will be secured.

A Panorama of the Battle of Trafalgar shows the great historic fight at the moment when Nelson received his death-blow, and a model of H.M.S. Victory has all its guns cleared for action, and everything ready for the fight, as it was on the morning of the great battle. In the cock-pit, where the famous admiral died, the death of the hero is represented. Nelson lies dying. Capt. Hardy is bending affectionately over his commander. The doctor, chaplain, the surgeon, the steward, the purser stand by, and Nelson expires, breathing the words—"Now I am satisfied; thank God I have done my duty."

Among the other interesting features of the exhibition are relics from Sir John Franklin's expedition, bottles, tobacco pipes, telescopes, watches, spoons, forks, and Franklin's own Bible and walking-stick, a real whaling-boat, an actual representation of a travelling party about to encamp for the night, a 110-ton gun, the largest ever made; a model of Eddystone Lighthouse, 170 feet high, built of iron and steel, with a lantern 1.4 feet in diameter, and a light equal to three million candles; and a reproduction of a ship in the frozen seas, being nipped in the ice-pack, and the sledge parties preparing to leave for the mainland, over the ice-floes.

CHRISTIAN DOGS.

So dire a profunation is it for a Christian dog to set foot upon the sacred threshold of a Moorish mosque, that no amount of purification can ever make it fit for the faithful to pray in again. Some years ago the clock in the tower of the mosque got out of order. The Moors have so degenerated that it has been long since there was an artificer among them capable of curing so delicate a patient as a debilitated clock. The great men of the city met in solemn conclave to consider how the difficulty was to be met. They discussed the matter thoroughly but arrived at no solution. Finally, a patriarch arose and said

"Oh, children of the Prophet, it is known unto you that a Portuguese dog of a Christian clock-mender pollutes the city of Tangier with his presence. Ye know, also, that when mosques are builded, asses bear the stones and the cement, and cross the sacred threshold. Now, therefore, send the Christian dog on all-fours, and barefoot, into the boly place to mend the clock, and let him go as an ass!"

And in that way it was done.

WHAT THE OLD HEN SAID.

Into the house he came running,
And begged me to cut off his curls,
Over his head richly clustered,
As bright and as fair as a girl's.

"Why would you lose them, my darling?"
"Because our old hen," pouted he,
Screams, when we meet, 'Get-your-hair-cut!
Get-your-hair-cut!'- I know she means me!"

GEORGE COOPER.

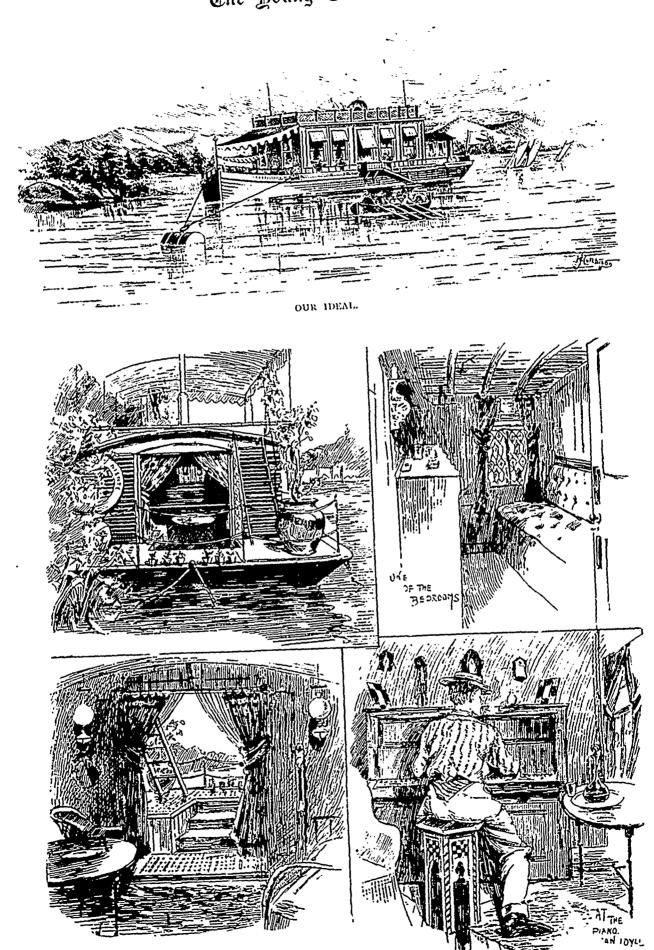
A HOUSE-BOAT FOR OUR CANADIAN LAKES.

Our artist has drawn for us a beautiful picture. It is a representation of a house-boat that is very fashionable on the Thames in England. The idea is an excellent one for Canada, and we have pleasure in calling attention to it, and in urging its advantages. With our long summer, our glorious weather, and our magnificent lakes and rivers, there is no country where its charms ought to be so appreciated. It ought to become a peculiarly Canadian institution.

It may, of course, be a means of expending a small fortune. It can also be made and enjoyed for little cost compared to the return. A discarded grain barge, if not too aged, could be fitted up with inexpensive accommodation, and cheap and pretty chintzes in the hands of our fair young ladies, with chromoes and flowers, would make a palace "fit to set before a king." The saloon should be surrounded by permanent sofas and lounges that may on a pinch be improvised into sleeping quarters. A few family rooms, and a cosy kitchen would complete the interior arrangements, and outside hammocks, boats, canoes, and fishing-rods would supply everything else for a novel, economical, and most delightful outing.

Arrangements could be made to have the house-boat towed to our destination, and every week might see us in a new water. A barge specially built and fitted up with steam, while more luxurious, could not be more enjoyable. We add a description of one taken from the Pall Mall Gazette, from which also we have selected some of our illustrations:

"To begin externally, its appearance from the river is extremely pleasing, the dark wooden walls, leaded windows, and the boxes of well-chosen flowers looking really charming against the back-ground of willow and elderberry. The internal arrangements are equally pre-The principal room or saloon, which is possessing. evidently furnished with an eye to comfort, has some very persuasive chairs, pretty hangings, and a piano. Electric bells and a speaking tube communicate with the servants at the other end of the boat. A corridor, out of which are the three bedrooms, connects the saloon with the kitchen, and is hung with red and black curtains. The bedrooms are also very comfortable. The washstand with adjustable toilette-glass is a useful invention, as it contains a cistern for water which pours into the basin by pressing a knob. The kitchen is fitted up, in the usual manner of kitchens, with a good cooking stove, sink, plate-racks, and swinging-shelf for decanters and bottles. All the lamps and candlesticks are hung in swivel-sockets. Coal is kept in bunkers behind the kitchen. Meat-safes and a refrigerator are also to be found.



A TRAVELLING HOUSE-BOAT.

A PETITION.

Eithel, Eurest of the lan, Ethel of the golden hair And eves of magac splendom. Brighter than stars of tropic night, Now thishing with a radiant light, Now melting soft and tender.

Lask not, Libel, for thy love That were a crown far, far above My moderate ambition, Lonly ask thee, cousin mine, If thou wilt graciously incline To grant one brief petition

Small, small the boon I crave, but tho tis Beneath, I fear, thy queenly notice, "Tis much, so much, to me; Then wilt thou, twice a day, endeavour To recollect, dear, that I never Take sugar in my tea

TO PURCHASE A PILGRIMAGE.

The Moois have three Sundays a week. The Mohammedan's comes on Friday, the Jews on Saturday, and that of the Christian Consuls on Sunday. The Jews are the most radical. The Moor goes to his mosque about noon on his Sabbath, as on any other day, removes his shoes at the door, performs his ablutions, makes his salaams, pressing his forehead to the pavement time and again, says his prayers, and goes back to his work.

But the Jew shuts up shop; will not touch copper or bronze money at all; soils his fingers with nothing meaner than silver and gold; attends the synagogue devoutly, will not cook or have anything to do with fire, and religiously refrains from embarking in any enterprise.

The Moor who has made a pilgrimage to Mecca is entitled to high distinction. Men call him Hadji, and he is thenceforward a great personage. Hundreds of Moors come to Tangier every year, and embark for Mecca. They go part of the way in English steamers, and the ten or twelve dollars they pay for passage is about all the trip costs. They take with them a quantity of food, and when the commissary department fails they is skirmish "for more. From the time they leave till they go home again, they never wash either on land or sea. They are usually gone from five to seven months, and as they do not change their clothes during all that time, they are totally unfit for the drawing-room when they get back.

Many of them have to rake and scrape a long time to gather together the ten dollars their steamer passage costs; and when one of them gets back he is a bankrupt for ever after. Few Moors can ever build up their for tunes again in one short life-time, after so reckless an outlay. In order to confine the dignity of Hadii to gen tlemen of patrician blood and possessions, the Emperor decreed that no man should make the pilgrimage save bloated aristocrats who were worth a hundred dollars in specie. But behold how iniquity can circumvent the law! For a consideration, the Jewish money changer lends the pilgrim one hundred dollars long chough for him to swear himself through, and then its cives it back before the ship sails out of the harbour!



(Owing to the increasing work of the Post Bag, and its demands upon our space, I am compelled to ask my young inquisitives to be satisfied with my replies only. The enquiries, however, shall continue to command my tullest sympathy, and to receive my very best attention. It is always a genuine pleasure for me to hear from my young triends on any point on which they have anything to ask.—En. Post Bag.

LITTLE TOW.—The coloured bottles in chemists' shops, which look so imposing, are supposed to contain essences the shopman has distilled, to show the perspection of colour. They are, in reality, filled with coloured water increly, and they are often made with a double glass to require as little as possible.

FANNY—Grasses will dry and remain ornamental for years—for twenty years—and still grow when sown. Those you pick in your own fields are sometimes better than those you pay for in shores.

DICK W.—When dogs have been poisoned and have recovered, like yours, they often suffer, for a long time, from irritability. Give him five grains of the tris-intrate of bismuth three times a day. It has no taste, and you can put it far back on the dog's tongue. A tenspoonful of cod-liver oil three times a day, and a little castor oil once a week, will do him good.

ALC: +D COOK.—I do not know the best authority on Fau-Tail pigeons in Anada, but Mr. E. B. Bingham, of Barrie, Out., is an expert, and might give you some good 'tips." He has gone in for "Fans" specially.

BICYCLIST + Yes, I believe so A ladies' European Bicycle trip is being arranged, which will leave New York about August 15th, to return in October. The cost will be \$300. The trip will include France and Germany, and the average daily run is to be 5 miles. It would be quite the thing for you to join. A good bicycle will last a lady for ten years. The exercise is allowed by physicians to be good for girls, indeed, even with delicate girls, it is beneficial. Many doctors prefer it to walking for their patients.

ALEA, WALL. You do not mention which examination you are preparing for You should address a letter to the Secretary of each of the Universities, who will give you the fullest and most reliable information. All the Universities have either boarding-houses connected with them, or under their control in a manner sufficient to guarantee their standing

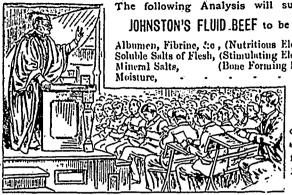
BATHER. -It is not bad to jump into the water when you are hot. The danger is in remaining in too long, or in being chilled on coming out. The shock does you good. But you should not bathe when you are very much fatigued as well as hot, or soon after a meal

FRASER RIVER. The calico you have made your canoe of may be made quite water-proof by being covered with boiled linseed oil.

Two Cousins. For full instructions about your Reading Clubser the first seven numbers of The Young Canadian, from Jan. 28th to March 11th. The Badge you will find there too.

A You so man led his blushing bride to the house of Rey Di Carpenter. "We want to be married," he said. "Are you Dr. Carpenter?" "Yes," replied the minister, "both Carpenter and Joiner.

A MAN never fully realizes the wealth of information he don't possess till his first child begins to ask questions.



The following Analysis will substantiate the claims of

JOHNSTON'S FLUID BEEF to be a Perfect Meat Food:-

Albumen, Fibrine, & (Nutritious Element), Soluble Salts of Flesh, (Stimulating Element),
Mineral Salts, (Bone Forming Element), -33.40 12.60

- 100.00

"Here we have the whole of the elements-without a single exception - necessary for the formation of FLESH, MUSCLE and BONE."

Food fulfilling the requirements of PERFECT NOURISHMENT and EASY DICESTION.

H. A. MILLER,

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GILDING, GLAZING, GRAINING, WHITEWASHING, &c.

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TOILET SOAP.

This Soan is the best ever introduced to the public; it is manufactured from the PUREST OILS, it contains no lye, or anything else indusions to the Skin. It is especially recom-neceded to the public for the removal of

Tau and Freekles from the Skin. IT CURES

BLOTCHES, PIMPLES AND ALL OTHER BUMORS IN THE SEIN.

Leaving it Soft, White and Pliable.

For INVARYS' Batts, it is auperior to any other Soap in the market. It is also highly recommended for Barbers' use for shaving and shampooing.

THIS SOAP IS THE CHEAPEST,

Being a Powder, it contains no water-all flar Soap contains thirty per cent. water, and manufactured of grease obtained from gaols and hospitals.

It is put up in nice boxes, doing away with the use of a soap dish. When once used, it will never be dispensed with, being the Cheajest and Brat in the market.

Price, largo Roxes, 50c. Small Boxes, 25c.
Liberal indoorments offered to live agents. Samples post-paid
upon receipt of price, 25c.
Address,

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Molsons Bank Court, 196 ST. JAMES STREET, MONTREAL

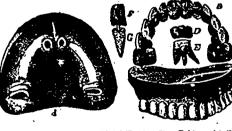
DIXON'S

so If but four firm roots still remain in the jaw in proper position, we can attack an entire set of teeth to these roots, and restore the mouth to its original usefulness and beauty without the use of a plate.

Models showing how the Tooth-Crown and Bridgework are attached to the Teeth.

TRACTION

B



Comparatively

/ Pain

A.—Mouth with Roots prepared to receive Artificial Teeth. B.—Bridge with Teeth ready to be attached to Roots. C.—Represents the Teeth firmly and permanently cemented to the Roots. One can masticate on these Teeth the same as upon natural Teeth. D.—Gold crown put on a broken down molar root, and the masticating surface restored E.—Root prepared for crown. F.—Porcelain crown for attachment to root of Front Tools which has been broken off, and crown restored without the use of a plate. G.—Root prepared for Crown.

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