ROUND THE MOON.

CHAPTER XIV.

"Now," said Nicholl, "Let us attack the second question, an indispensable complement of the first. I ask the honorable Commission, if the moon is not habitable, has she ever been inhabited, Citizen Barbicane?"

"My friends," replied Barbicane, "I did not undertake this journey in order to form an opinion on the past habitability of our satellite; but I will add that our personal observations only confirm me in this opinion. I believe, indeed, I affirm, that the moon has been inhabited by a human race organized like our own, that she has produced animals antomatically formed like the terrestrial animals ; but I add that these races, human or animal, have had their day, and are now for ever extinct."

And now I am going to astonish you. "Astonish us?" said Michel Ardan. "I firmly believe that at the period when the moon was inhabited, the nights and days did not last 354 hours!" "And why?" asked Nicholl quick-

"Because most probably then the rotary motion of the moon upon her axis was not equal to her revolution, an equality which presents each part of her disc during fifteen hours to the action of

the solar rays." "Granted," replied Nicholl, but why should not these two motions have been equal, as they are really so?"

"Because that equality has only been determined by terrestrial attraction. And who can say that this attraction was powerful enough to alter the motion of the moon at that period when the earth was still fluid?"

"Just so," replied Nicholl; "and who can say that the moon has alway been a satellite of the earth?" "And who can say," exclaimed Michel Ardan, "that the moon did not

Then Nicholl, who wished to end the discussion, put the second question which had just been considered again. "Has the moon been inhabited?" he

exist before the earth?'

asked. The answer was unanimously in the affirmative. But during the discussion, fruitful in somewhat hazardous theories. the projectile was rapidly leaving the moon; the lineaments faded away from the traveler's eyes, mountains were confused in the distance; and of all the wonderful, strange, and fantastical form of the earth's satelite, there soon remained nothing but the imperishable remembrance.

For a long time Barbicane and his companions looked silently and sadly upon that world which they had only seen from a distance, as Moses saw the land of Canaan, and which they were leaving without a possibility of ever returning to it. The projectile's position with regard to the moon had altered, and the base was now turned to the earth.

This change, which Barbicane verified, did not fail to surprise them. If the projectile was to gravitate round the satellite in an elliptical orbit, why was not its heaviest part turned towards it, as the moon turns hers to the earth That was a difficult point.

In watching the course of the projectile they could see that on leaving the moon it followed a course analogous to that traced in approaching her. It was describing a very long ellipse, which would most likely extend to the point of equal attraction, where the influences of the earth and its satellite are neutra-

Such was the conclusion which Barbi cane very justly drew from facts already observed, a conviction which his two friends shared with him.

"And when arrived at this dead point, what will become of us?" asked Michel Ardan.

"We don't know," replied Barbi-

"But one can draw some hypotheses, I suppose?

"Two," answered Barbicane; "ether the projectile's speed will be insufficient, and it will remain for ever immovable on this line of double attraction-" "I prefer the other hypothesis what-

"Or," continued Barbicane, "its speed will be sufficient, and it will continue its eliptical course, to gravitate for ever around the orb of night."

ever it may be," interrupted Michel.

"A revolution not at all consoling," said Michel, "to pass to the state of humble servants to a moon whom we are accostumed to look upon as our own handmaid. So that is the fate in store for us?"

Neither Barbicane nor Nicholl answered. "You do not answer." continued

Michel impatiently. "There is nothing to answer," said

Nicholl. "Is there nothing to try?"

"No." answered Barbicane. Do you pretend to fight against the impossible?" "Why not? Do one Frenchman and two Americans shrink from such a word?"

"But what would you do?" "Subdue this motion which is bearing us away." "Subdue it ?"

"Yes," continued Michel, getting animated, "or else alter it, and employ it to the accomplishment of our own ends." " And how ?"

"That is your affair. If artillerymen are not masters of their projectile they are not artillerymen. If the projectile is to command the gunner, we had better ram the gunner into the gun. My faith! fine savants! who do not know what is to become of us after inducing me-"

"Inducing you!" cried Barbicane and you mean by that?'

"No recrimination," said Michel. I do no complain; the trip has pleased me, the projectile agrees with me; but let us do all that is humanly possible to do to fall somewhere, even if only on the moon.'

Michel," replied Barbicane, "but air. But, through the scuttles Barbimeans fail us. "We cannot alter the motion of the

projectile?" " No."

"Nor diminish its speed?"

lighten an overloaded vessel?"

"Not even by lightening it, as they

Nicholl. "We have no ballast on ing of their hearts amidst this perfect board; and, indeed, it seems to me that if lightened it would go much quicker.'

"Quicker." Barbicane, wishing to make his two the lunar disc ! friends agree; "for we float in space,

a decided voice; "then there remains tracted. but one thing to do."

"What is it ?" said Nicholl. "Breakfast," answered the cool, audacious Frenchman, who always brought up this solution at the most

difficult juncture. . influence on the projectile's course, it could at least be tried without inconvenience, and even with success from a

Michel had none but good ideas.

ed, observations began again. Around rible fall, from a height of 160,000 miles, the projectile, at an invariable distance, and no springs to break it. According were the objects which had been thrown to the laws of gunnery, the projectile out. Evidently, in its translatory motion round the moon, it had not passed of 16,000 yards in the last second. through any atmosphere, for the specific weight of these different objects would have checked their relative speed.

faint arc-line, being but a day old while the moon, on the other hand, was in its | ment at a speed of 240 miles per hour. glorious lightness.

A long discussion ensued on the course and relative position of the projectile, when it was determined by practical tests that it was evidently moving towards its aposelenitcal point; and Barbicane had reason to think that its speed would decrease up to this point, and then increase by degrees as it neared the moon. This speed would even become nil, if this point joined that of equal attraction. Barbicane studied the consequences of these different situations, and thinking what inference he could draw from them, when he was roughly disturbed by a cry from Michel

"By Jove!" he exclaimed, 'I must admit we are downright simpletons!" "I do not say we are not," replied

Barbicane; "but why?" "Because we have a very simple means of checking this speed which is bearing us from the moon, and we do not use it!"

"And what is the means?" "To use the recoil contained in or rockets."

"Done!" said Nicholl. "We have not used this force yet," the American coast?"

said Barbicane, "it is true, but we will

"When?" asded Michel. "When the time comes. Observe, my friends, that in the position occupied by the projectile, an oblique position with regard to the lunar disc, our rockets, in slightly altering its

directions, might turn it from the moon instead of drawing it nearer?" "Just so," replied Michel. "Let us wait, then. By some inexplicable influence, the projectile is turning its base towards the earth. It is probable that at the point of equal attraction, its conical cap will be directed rigidly towards the moon; at that moment we may hope that its speed will

we may perhaps provoke a fall directly | book. on the surface of the lunar disc." "Bravo!" said Michel. "What we did not do, what we could not do on our first passage at the dead point, because the projectile was then endowed

with too great a speed." "Very well reasoned," said Nicholl. "Let us wait patiently," continued Barbicane. "Putting every chance on I will turn in." our side, and after having so much despaired, I may say I think that we shall

Michel Ardan's hips and hurrahs. And none of the audacious boobies remembered the question that they themselves had solved in the negative. No! the Moon is not inhabited; no! the moon is probably not habitable. And yet they were going to try every thing to

The precise moment when the projectile should reach the neutral or deadline of attraction between Earth and moon was ascertained to be one o'clock in the morning of the 7th-8th of Decem-

The day passed without fincident. The terrestrial midnight arrived. The 8th of December was beginning. One hour more, and the point of equal attraction would be reached. What speed would then animate the projectile? They could not estimate it. But no error could vitiate Barbicane's calculations. At one in the morning, this

speed ought to be and would be nil. Already the projectile's conical top was sensibly turned towards the lunar disc, presented in such a way as to utilize the whole of the recoil produced by the pressure of the rocket apparatus. The chances were in favor of the travellers. If its speed was utterly annulled on this dead point, a decided ed movement towards the moon would suffice, however slight, to deter-

"Five minutes to one," said Nicholl. "All is ready," replied Michael Ardan, directing a lighted match to the flame of the gas.

"Wait," said Barbicane, holding his chronometer in his hand

At that moment weight had no effect. Nicholl. "Inducing you! What do The travelers felt in themselves the entire disappearance of it. They were very near the neutral point, if they did

"One o'clock," said Barbicane. Michel Ardan applied the lighted match to a train in communication with the rocket. No detonation was "We ask no better, my worthy heard in the inside, for there was no cane saw a prolonged smoke, the flames of which were immediately extinguish-

> The projectile sustained a certain shock, which was sensibly felt from the

The three friends looked and listened without speaking, and scarcely breath-"What would you throw out?" said ing. One might have heard the beat-

"No," said Nicholl, "since the bot-"Neither slower nor quicker," said tom of the projectile is not turning to

At this moment Barbicane quitted and must no longer consider specific the scuttle, turning to his two companions. He was frightfully pale, his "Very well," cried Michel Ardan in forehead wrinkled, and his lips con-

"We are falling!" said he. "Ah!" cried Michel Ardan, "on the

"On the earth!" "The devil!" exclaimed Michel Ardan, adding philosophically, "well In any case, if this operation had no when we came into this projectile we were very doubtful as to the ease with which we should get out of it !"

And now this fearful fall had begun. stomachic point of view. Certainly The speed retained had borne the projectile beyond the dead point. The They breakfasted then at two in the explosion of the rocket could not dimorning; the hour mattered little. vertits course. This speed in going Michel served his usual repast, crowned | had carried it over the neutral line, by a glorious bottle drown from his and in returning had done the same private cellar. If ideas did not crowd thing. The laws of physics condemned on their brains, we must despair of the it to pass through every point which it Chambertin of 1853. The repast finish- had already gone through. It was a termust strike the earth with a speed But to give some figures of compari-

son, it has been reckoned that an object thrown from the top of the over of The terrestrial sphere showed but a Notre Dame, the height of which is only 200 feet, will arrive on the pave-Here the projectile must strike the earth with a speed of 115,200 miles per hour.

"We are lost!" said Michel coolly. "Very well! if we die," answered Barbicane, with a sort of religious enthusiasm, "the result of our travels will be magnificently spread. It is His own secret that God will tell us! In the other life, the soul will want to know nothing, either of machines or engines! It will be identified with eternal wisdom!"

"In fact," interrupted Michel Ardan, 'the whole of the other world may well console us for the loss of that inferior Saws. orb called the moon!"

Barbicane crossed his arms on his breast, with a motion of sublime resignation, saying at the same time,-

"The will of heaven be done!" CHAPTER XV.

THE SOUNDINGS OF THE "SUSQUEHANNA" "Well, lieutenant, and our sound-"I think, sir, that the operation is

nearing its completion, replied Lieutenant Bronsfield. "But who would have thought of finding such a depth so near in shore, and only 200 miles from With your permission, lieutenant,

where are we now?" "Sir, at this moment we have 3508 fathoms of line out, and the ball which draws the sounding lead has not yet touched the bottom; but if so, it would have come up of itself."

"Brooks's apparatus is very ingenious," said Captain Blomsberry; "it gives us very exact soundings.' "Touch!" cried at this moment one

of the men at the fore-wheel, who was superintending the operation. The captain and the lieutenant mounted the quarter-deck.

"What depth have we?" asked the

"Three thousand six hundred and twenty-seven fathoms," replied the be nil; then will be the moment to act, lieutenant, entering it into his noteand with the influence of our rockets,

"Well, Bronsfield," said the captain, "I will take down the result. Now haul in the sounding line. It will be the work of some hours. In that time the engineer can light the furnaces, and we shall be ready to start as soon as you have finished. It is ten o'clock, and with your permission, lieutenant is removed.

"Do so, sir; do so?" replied the lieu- for any other purpose.

tenant obligingly The captain of the "Susquehanna," This conclusion was a signal for as brave a man as need be, and the humble servant of his officers, returned to his cabin, took a brandy-grog, which earned for the steward no end of praise and turned in, not without having complimented his servant upon his making beds, and slept a peaceful sleep.

It was ten at night. The eleventh day of the month of December was drawing to a close in a magnificent

The "Susquehanna," a corvette of 500 horse-power, of the United States' navy, was occupied in taking soundings in the Pacific Ocean about 200 miles off the American coast, following that long peninsula which stretches down the coast of New Mexico.

The wind had dropped by degrees. There was no disturbance in the air. Their pennant hung motionless from the maintop-gallant-mast truck.

Captain Jonathan Blomsberry (cousin-german of Colonel Blomsberry, one of the most ardent supporters of the Gun Club, who had married an aunt of the captain and daughter of an honorable Kentucky merchant,)-Captain Blomsberry could not have wished for finer weather in which to bring to a close his delicate operations of sounding. His corvette had not even felt the great tempest, which by sweeping away the groups of clouds on the Rocky Mountains, had allowed them to observe the course of the famous projec-

Everything went well, and with all the fervor of a Presbyterian, he did not forget to thank heaven for it. The series of soundings taken by the "Susquehanna," had for its aim the finding of a favorable spot for the laying of a submarine cable to connect the Hawaian Islands with the coast of America. (TO BE CONTINUED.)

one stroke of lever.

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"Are we falling?" asked Michel Miramichi Foundry & Machine Works, Indan, at length.

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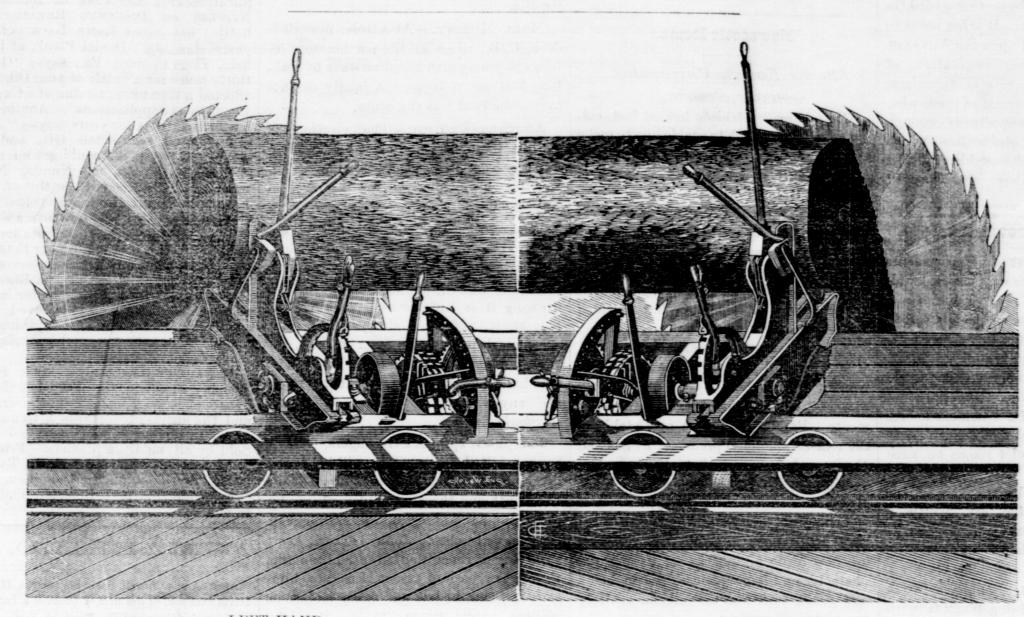
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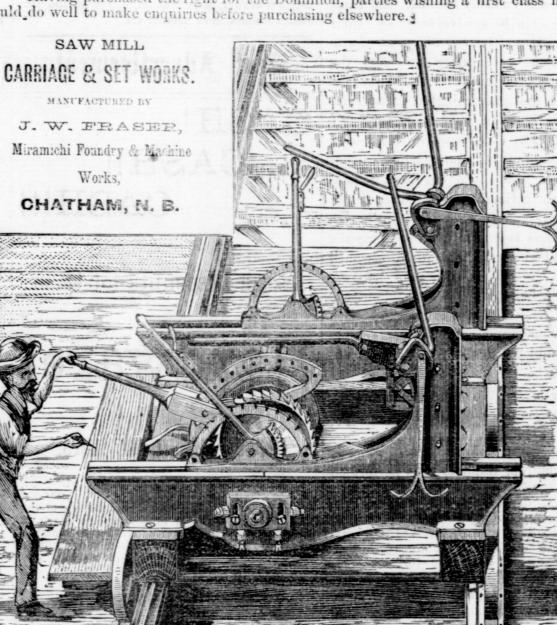
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For the convenience of parties ordering Machines and to prevent mistakes we present diagram showing Left and Right hand When orders are given it should be stated whether the Saws are required to be right or left hand.

This cut represents Pond's Wisconsin Rotary Saw Carriage, and Self-Receding Knee Blocks manufactured by me. Having purchased the right for the Dominion, parties wishing a first class mill would do well to make enquiries before purchasing elsewhere.



These Set-Works are widely and favourably known in the West and also on the Miramichi, and are especially adapted for accurate and rapid work. All of the working parts are of brass and steel and the Blocks and Knees are also faced with steel. I have a very powerful and accurate taper-movement for logs with large ends, or for crooked ones. In the annexed cut the blocks have a throw of eight inches

The Cant Hook or Double Crotch Dog, as seen in the cut, is a very necessary appendage, not used on every log, but, when it is wanted, it is indispensable : and answers the demand fully. If the log catches a bark between itself and the head block, then the dog is wanted, and holds in perfect safety to the man's fingers until the bark Again, if the log is to be canted towards or from the carriage, then the dog

is wanted, and also if the log is to be drawn hard against the knees to straighten it or

from the Saw at any point.

pointer on log-seat.

box operated through levers by the sawyer.

There is also another Index fastened to side of Knees with

This Mill has an Iron Saw Frame (not shown in cut), 10

the feed and gig paper frictions, -which are twelve inches

diamter and thirteen inches face, -by means of an eccentric

The Arbor is of steel three and a half inches diameter and not cut down at

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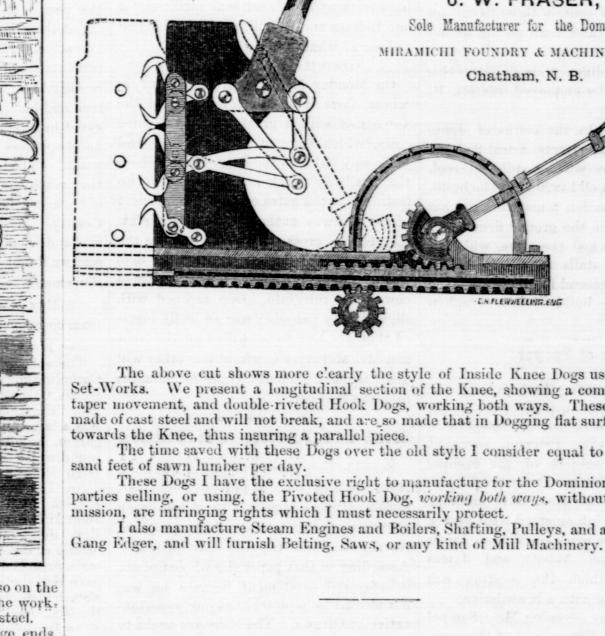
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MIRAMICHI FOUNDRY AND MACHINE WORKS,

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M SEND FOR PRICE LIST. TA

I manufacture this Mill with from two to five Block.



The above cut shows more clearly the style of Inside Knee Dogs used on the Set-Works. We present a longitudinal section of the Knee, showing a compound or taper movement, and double-riveted Hook Dogs, working both ways. These Dogs are made of cast steel and will not break, and are so made that in Dogging flat surfaces they towards the Knee, thus insuring a parallel piece.

The time saved with these Dogs over the old style I consider equal to six thou-

sand feet of sawn lumber per day. These Dogs I have the exclusive right to manufacture for the Dominion, and any parties selling, or using, the Pivoted Hook Dog, working both ways, without my permission, are infringing rights which I must necessarily protect. I also manufacture Steam Engines and Boilers, Shafting, Pulleys, and a superior

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SWALL WOOD'S

Patent Lever Feed Shingle Machine.

I have secured the right to manufacture this Machine which has invariably taken the lead wherever it has been introduced It is easily operated, simple in construction, and very fast cutting.

It is a side cutting Machine, the Saw cutting with the grain of the wood, the block standing on end. The peculiarity of this Machine is the Feed Works, which operate the Carriage to and from the Saw without jarring and racking as in other

There is a total absence of weights, springs, trip gear and other uncertain appliances for effecting the necessary motion to the Carriage. "Smallwood's Patent Lever Feed" draws the Carriage toward the Saw, while cutting at an even and steady rate and it forces it back again by a quick return movement without jerk or jar. The advantages of this Feed are many;—In the first place, on account of the smoothness of its working it can be worked fifty per cent. faster than if worked with springs, weights, or trip gear; and, secondly, on the same account it can be built much lighter, as it is not struck against the end of the Machine at every return stroke. Again, this Machine, working so easily and quietly, the Saw can be driven faster and will work truer than it would if placed in a Machine that is thumped and racked as in a Machine

In the Patent Lever Feed arrangement the action is positive, as no part of the Feed Works can ungear except at the will of the operator. The Feed Works are placed in such a position that saw-dust or other refuse cannot fall into them to clog

THE ROLLERS

on which the Carriage runs are attached to it at the top so that the Carriage hangs on them in place of at the bottom as is commonly the case. There is a great advantage in this, as it prevents saw-dust and refuse from falling on the track and throwing Carriage on Saw. The proof of the advantages of these arrangements is that parties owning other Machines have repeatedly applied to know if it could not be applied to their Machines.

This Machine will saw blocks from fourteen to eighteen inches long. It makes no difference whether the blocks are round, square, or have been quartered from logs; neither does it matter whether they are cut square or angling on either end.

BARREL HEADING

can also be sawn with scarcely any change to the Machine.

THE JOINTER

is of cast iron turned off true on the face and holding six knives, and is driven by a new and simple contrivance, which allows it to be placed at any angle to the Machine which the sawyer may consider most convenient. This cut shows longitudinal view of Saw Carriage, Cant Hooks, interlocking Lever Dogs, Ratchet and Index Wheel, and mode of operating same; quadrant has Twenty-five thousand can be cut per day of ten hours. From fifteen to twenty holes and stop which set inches and parts, from one half inch to three inches, with thousand is the regular average of some Machines. The amount performed will, however, depend entirely on the power, speed at which the Saw is driven, the size of blocks and the expertness of the attendant The Index Wheel and Graduated Scale is geared to the set

In view the many peculiar advantages of this Machine we consider it the cheapest and best ever offered to the public. shaft with fine cut wrought iron gears, and as the Knees move toward the Saw, the Index wheel turns towards the setter, Parties wanting a Machine would do well to send for price list. showing in its figured face the exact distance of the Knee

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inches deep, and heavily flanged top and botton. The Feed is belted from tail of arbor and gig, driven by the tight side of main belt, working on a thirty-inch pulley. The Pinion Shaft is driven by a thirty-inch friction pully with PORTABLE AND STATIONARY ENGINES AND BOILERS. Smallwood & Bovyer's Lever Feed Shingle Machines, twelve-inch face, turned all over, and is worked between

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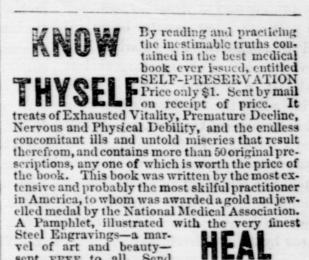
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