CHAPTER XIV. "Now," said Nicholl, "Let us attack the second question, an indispensable at of the first. I ask the not habitable, has she ever been inhabit-

ed, 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 the in this opinion. I believe, ndeed, I affirm, that the moon has audacious Frenchman, who always seen inhabited by a human race organiz-brought up this solution at the most ed like our own, that she has produced difficult juncture. 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."

" Astonish us?" said Michel Ardan. "I firmly believe that at the period when the moon was inhabited, the

was not equal to her revolution, an

"Granted," replied Nicholl, but why tion round the moon, it had not passed of 16,000 yards in the last second. should not these two motions have been equal, as they are really so?"

through any atmosphere, for the specific weight of these different objects would son, it has been reckoned that an object Because that equality has only been have checked their relative speed.

tion of the moon at that period when glorious lightness: the earth was still fluid?" "Just so," replied Nicholl; "and

who can say that the moon has alway been a satellite of the earth?" Michel Ardan, "that the moon did not exist before the earth?"

"Has the moon been inhabited ?" he

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

For a long time Barbicane and his companions looked silently and sadly not use it!" 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 re-turning to it. The projectile's position with regard to the moon had altered, and the base was now turned to the

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 that traced in approaching her. It was describing a very long ellipse, which of the earth and its satellite are neutra-

cane very justly drew from facts already observed, a conviction which his two observed, a conviction which his two friends shared with him.

"We don't know," replied Barbi- with too great a speed."

I suppose ?" the projectile's speed will be insufficient, and it will remain for ever immovable

on this line of double attraction-" ever it may be," interrupted Michel.
"Or," continued Barbicane, "its tinue its eliptical course, to gravitate

for ever around the orb of night." "A revolution not at all consoling," they were going to try every thing to said Michel, "to pass to the state of reach her. humble servants to a moon whom we are accostumed to look upon as our own handmaid. So that is the fate in store

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

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

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

"Yes," continued Michel, getting " And how ?"

men are not masters of their projectile mine its fall. they are not artillerymen. If the pro-

I do no complain; the trip has pleased | not touch it. me, the projectile agrees with me ; but let us do all that is humanly possible to Michel Ardan applied the lighted

means fail us.

"We cannot alter the motion of the of which were immediately extinguish-

"Nor diminish its speed?"

" No." "Not even by lightening it, as they lighten an overloaded vessel?"

board; and, indeed, it seems to me that silence. if lightened it would go much quicker.'

"Neither slower nor quicker," said Barbicane, wishing to make his two the lunar disc! weight."

a decided voice; "then there remains tracted. but one thing to do." "Breakfast," answered the cool,

could at least be tried without incon- which we should get out of it!" venience, and even with success from a And now this fearful fall had begun

Michel had none but good ideas. hights and days did not last 354 hours!" Michel served his usual repast, crowned had carried it over the neutral line, And why ?" asked Nicholl quick- by a glorious bottle drown from his and in returning had done the same "Because most probably then the rotary motion of the moon upon her axis Chambertin of 1853. The repast finish- had already gone through. It was a tersquality which presents each part of her the projectile, at an invariable distance, and no springs to break it. According disc during fifteen hours to the action of were the objects which had been thrown to the laws of gunnery, the projectile out. Evidently, in its translatory mo- must strike the earth with a speed

was powerful enough to alter the mo- the moon, on the other hand, was in its ment at a speed of 240 miles per hour.

course and relative position of the projectile, when it was determined by prac-"And who can say," exclaimed tical tests that it was evidently moving towards its aposelenitcal point; and thusiasm, "the result of our travels Barbicane had reason to think that its will be magnificently spread. It is His Then Nicholl, who wished to end the speed would decrease up to this point, own secret that God will tell us! In discussion, put the second question, which had just been considered again. become nil, if this point joined that of engines! It will be identified with 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

" And what is the means?" "To use the recoil contained in our

" Done !" said Nicholl. "We have not used this force yet," the American coast?" said Barbicane, "it is true, but we will

"When?" asded Michel. position with regard to the lunar disc, have come up of itself." 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 inex- of the men at the fore-wheel, who was plicable influence, the projectile is turn- superintending the operation. ing its base towards the earth. It is probable that at the point of equal at- ed the quarter deck. would most likely extend to the point of equal straction, where the influences rigidly towards the moon; at that moment we may hope that its speed will

point, what will become of us?" asked our first passage at the dead point, be-

"But one can draw some hypotheses, Barbicane. "Putting every chance on I will turn in." "Two," answered Barbicane; "ether our side, and after having so much despaired, I may say I think that we shall gain our end."

This conclusion was a signal for "I prefer the other hypothesis what- Michel Ardan's hips and hurrahs. And humble servant of his officers, returned none of the audacious boobies remem- to his cabin, took a brandy-grog, which bered the question that they themselves | earned for the steward no end of praise speed will be sufficient, and it will con- had solved in the negative. No! the and turned in, not without having com Moon is not inhabited; no! the moon is probably not habitable. And yet beds, and slept a peaceful sleep.

> The precise moment when the projectile should reach the neutral or dead- night. line of attraction between Earth and

The day passed without sincident. 8th of December was beginning. One coast of New Mexico. hour more, and the point of equal attraction would be reached. What speed would then animate the projectile? "No," answered Barbicane. Do you pretend to fight against the impossible?"

They could not estimate it. But no "Why not? Do one Frenchman and | error could vitiate Barbicane's calcula-

ize the whole of the recoil produced by the pressure of the rocket apparatus.

Blomsberry could not have wisned for finer weather in which to bring to a close his delicate operations of soundanimated, "or else alter it, and employ The chances were in favor of the it to the accomplishment of our own travellers. If its speed was utterly annulled on this dead point, a decided great tempest, which by sweeping away ed movement towards the moon Mountains, had allowed them to ob-"That is your affair. If artillery- would suffice, however slight, to deter-

"Five minutes to one," said Nicholl.

chronometer in his hand. "Inducing you!" cried Barbicane and At that moment weight had no effect. Nicholl, "Inducing you! What do you mean by that?"

The travelers felt in themselves the entire disappearance of it. They were "No recrimination," said Michel. very near the neutral point, if they did | . & F. BURPEE & Co.,

"One o'clock," said Barbicane. do to fall somewhere, even if only on the moon."

"We ask no better, my worthy Michel," replied Barbicane, "but heard in the inside, for there was no air. But, through the scuttles Barbicane, "but heard in the inside, for the scuttles Barbicane, "but heard in the inside, the scuttles Barbicane, "but heard in the insi

"What would you throw out?" said ing. One might have heard the heat-

Ardan, at length. "No," said Nicholl, "since the bottom of the projectile is not turning to

friends agree ; "for we float in space, 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 be. "Ah !" cried Michel Ardan, "on the

"On the earth!" "The devil!" exclaimed Michel In any case, if this operation had no when we came into this projectile we influence on the projectile's course, it were very doubtful as to the ease with

And now I am going to astonish you. 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 littlé. vert its course. This speed in going private cellar. If ideas did not crowd thing. The laws of physics condemned ed, observations began again. Around rible fall, from a height of 160,000 miles,

determined by terrestrial attraction.

And the can say that this attraction faint arc-line, being but a day old while only 200 feet, will arrive on the pavement at a speed of 240 miles per hour. thrown from the top of the ower of Here the projectile must strike the earth A long discussion ensued on the 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 eneternal wisdom!"

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

reast, with a motion of sublime re signation, 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 This charge, which Barbicane verified, did not fail to surprise them. If

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

"What depth have we?" asked the

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

did not do, what we could not do on haul in the sounding line. It will be cause the projectile was then endowed the engineer can light the furnaces, and

"Do so, sir; do so?" replied the lieutenant obligingly. The captain of the "Susquehanna, as brave a man as need be, and the

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

The "Susquehauna," a corvette of moon was ascertained to be one o'clock 500 horse-power, of the United States' in the morning of the 7th-8th of Decem- navy, was occupied in taking soundings in the Pacific Ocean about 200 miles off the American coast, following that long The terrestrial midnight arrived. The peninsula which stretches down the

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 (cou-"Why not? Do one Frenchman and two Americans shrink from such a tone in the morning, this two Americans shrink from such as tone in the morning, this of the most ardent supporters of the 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 util
Blomsberry could not have wished for the captain and daughter of an honorable of the recoil produced by ing. His corvette had not even felt the serve the course of the famous projec-

jectile 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

"All is ready," replied Michael Ardan, directing a lighted match to the flame of the gas.

"Wait," said Barbicane, holding his

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 Everything went well, and with all one stroke of lever. of a favorable spot for the laying of a submarine cable to connect the Hawaian Islands with the coast of America. (To BE CONTINUED.)

Cor. Dock & Union sts.,

cane saw a prolonged smoke, the flames of which were immediately extinguished which were immediately extinguished Mounting, (Wilkie's Scotch) Plating and Scholars (Charles and Mounting, (Wilkie's Scotch) Plating and Scholars (Charles and Machine).

"Are we falling?" asked Michel Miramichi Foundry & Machine Works,

CHATHAM. NEW BRUNSWICK.

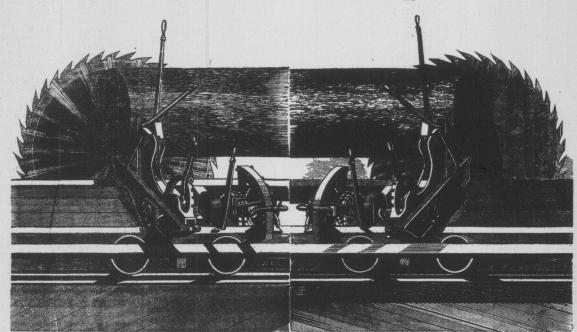
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Ardan, adding philosophically, "well STEAM ENGINES AND BOILERS, GANG AND ROTARY SAW MILLS, GANG EDGERS & SHINGLE MACHINES.

Pond's Wisconsin Patent Rotary Saw Carriage a Specialty.

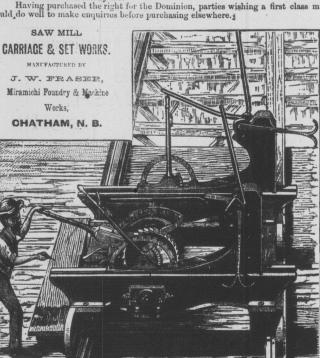


HEAD-BLOCK

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.



"Well, Bronsfield," said the captain,
"I will take down the result. Now

These Set-Works are widely and favourably known in the West and also on the
Miramichi, and are especially adapted for accurate and papid work. All of the working parts are of brass and steel and the Blocks and Knees are also faced with steel.

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 the country is a country of 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 the man's fingers until the bark is removed.

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 for crooked ones. In the annexed cut the blocks have a throw of eight inches for crooked ones, or for crooked ones, in the annexed cut the blocks have a throw of eight inches for crooked ones, or for c

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

inter on log-seat.

I manufacture this Mill with from two to five Block.

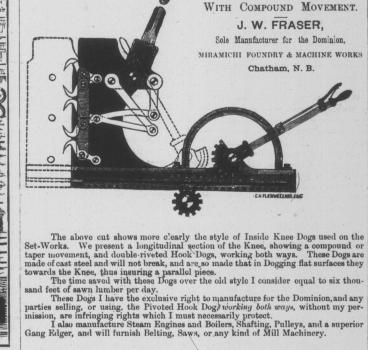
I manufacture this Mill with from two to five Block.
This Mill has an Iron Saw Frame (not shown in cut), 10 inches deep, and heavily flanged top and botton. The Feed is belted from tail of arbor and gig, driven by the tight side of main belt, working on a thirty-inch pulley. The Pinion Shaft is driven by a thirty-inch friction pully with twelve-inch face, turned all over, and is worked between the feed and gig paper frictions,—which are twelve inches diamter and thirteen inches face,—by means of an eccentric way by the sawyer.

box operated through levers by the sawyer.

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

J. W. FRASER,

MIRAMICHI FOUNDRY AND MACHINE WORKS,



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

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SMALLWOOD'S

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 Machines.

Machines.

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 of the old style. of the old style.

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, asit 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.

Twenty-five thousand can be cut per day of ten hours. From fifteen to twenty 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.

In view the many peculiar advantages of this Machine we consider it the This cut shows longitudinal view of Saw Carriage, Cant Hooks, interlocking Lever Dogs, Ratchet and Index Wheel, and mode of operating same; quadrant has holes and stop which set inches and parts, from one half inch to three inches, with In view the many peculiar advantages of this Machine we consist and best ever offered to the public.

Parties wanting a Machine would do well to send for price list. shaft with fine cut wrought iron gears, and as the Knees move toward the Saw, the Index wheel turns towards the setter, showing in its figured face the exact distance of the Knee from the Saw at any point.

There is also another Index fastened to side of Knees with

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ed.

The 'projectile sustained a certain shock, which was sensibly felt from the interior.

The three friends looked and listened without speaking, and scarcely breathing. One might have heard the beating.

One might have heard the beat
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