

ROUND THE MOON. CHAPTER XIV. "Now," said Nichol, "Let us attack the question, an indispensable complement of the first. I ask the honorable Commission, if the moon is not habitable, has she ever been inhabited, or is she now being inhabited?"

Nichol. "We have no ballast on board; and, indeed, it seems to me that if lightened it would go much quicker." "Slower," said Nichol. "Quicker," said Nichol. "Neither slower nor quicker," said Barbicane, wishing to make his two friends agree; "for we float in space, and must no longer consider specific weight."

"Very well," cried Michel Ardan in a decided voice; "then there remains but one thing to do." "What is it?" said Nichol. "Breakfast," answered the cool, audacious Frenchman, who always brought up this solution at the most difficult juncture.

In any case, if this operation had no influence on the projectile's course, it could at least be tried without inconvenience, and even with success from a stomachic point of view. Certainly Michel had none but good ideas. They breakfasted then at two in the morning; the hour mattered little. Michel served his usual repast, crowned by a glorious bottle down from his private cellar. If ideas did not crowd on their brains, we must despair of the Chamberlain of 1863. The repairs finished, observations began again. Around the projectile, at an invariable distance, were the objects which had been thrown out. Evidently, in its translatory motion round the moon, it had not passed through any atmosphere, for the speed of these different objects would have checked their relative speed.

The terrestrial sphere showed but a faint arc-line, being but a day old while the moon, on the other hand, was in its 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 apogee 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 Ardan.

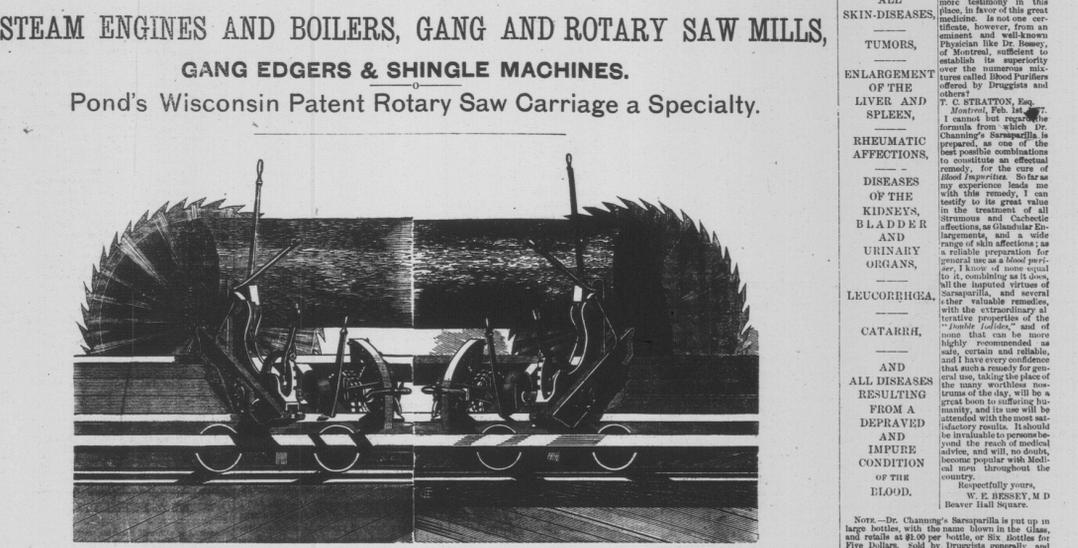
"By Jove!" he exclaimed, "I must admit we are downright simpletons!" "I do not say we are not," replied Barbicane; "but why?" "Because we have a very simple means of checking this speed which is bearing us from the moon, and we do not use it!" "And what is the means?" "To use the recoil contained in our rockets." "Done!" said Nichol. "We have not used this force yet," said Barbicane, "it is true, but we will do so."

"When?" asked 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 direction, might turn it from the moon instead of drawing it nearer!" "Just so," replied Michel. "Let us wait, then. By some incredible 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 be nil; then will be the moment to act, and with the influence of our rockets, we may perhaps provoke a fall directly 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 Nichol. "Let us wait patiently," continued Barbicane. "Putting every chance on our side, and after having so much despaired, I may say I think that we shall gain our end."

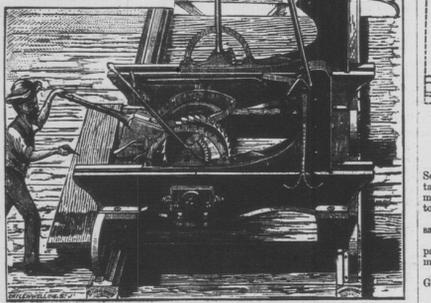
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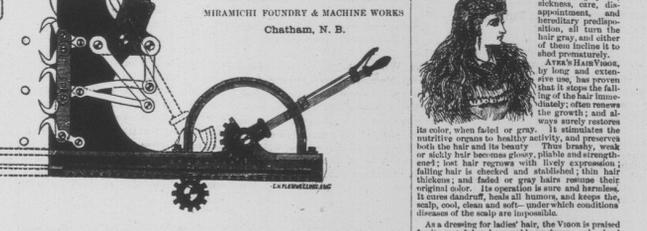
LEFT HAND. RIGHT HAND. For the convenience of parties ordering Machines and to prevent mistakes we present diagram showing Left and Right hand Saws. When orders are given it should be stated whether the Saws are required to be right or left hand.

This cut represents Pond's Wisconsin Rotary Saw Carriage, and Self-Recoiling 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.



CHATHAM, N. B.

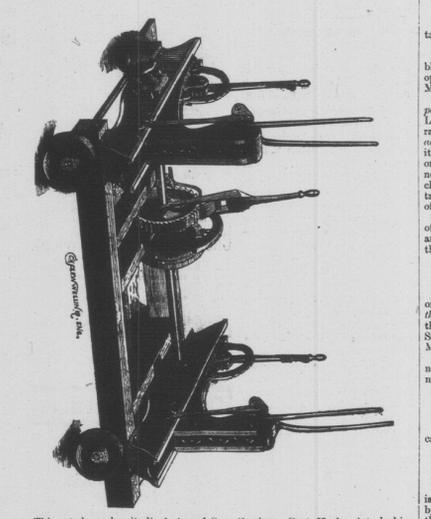
HEAD-BLOCK WITH COMPOUND MOVEMENT. J. W. FRASER, Sole Manufacturer for the Dominion, MIRAMICHI FOUNDRY & MACHINE WORKS, Chatham, N. B.



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.

These Set-Works are widely and favorably 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 of cast steel.

SOLE MANUFACTURER IN NEW BRUNSWICK OF SMALLWOOD'S Patent Lever Feed Shingle Machine.



This cut shows longitudinal view of Saw Carriage, Cant Hooks, interlocking Lever Dogs, Hatchet 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 one stroke of lever.

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 Work, which operates the Carriage to and from the Saw without jarring and making as in other Machines.

The Index Wheel and Graduated Scale is geared to the set 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 figure face the exact distance of the Knee from the Saw at any point.

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.

There is also another Index fastened to side of Knees with pointer on log-see. This Mill has an Iron Saw Frame (not shown in cut), 10 inches deep, and heavily flanged top and bottom. The Feed is bolted from tail of arbor and gig, driven by the right side of main belt, working on a thirty-inch pulley.

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.

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