

the other hand, tend to equalize the temperature even to a depth of forty fathoms.

That the temperature of the water of the main channel of the St. Lawrence is always considerably lower than that of the waters nearer shore, or of the harbors or the affluent streams.

That no general rule can be laid down regarding the changes of temperature with the increase of depth, each case being influenced by its own special circumstances.

That in high summer temperatures the surface of comparatively still, shallow, sheltered water, unaffected by main channel cur-

rents, absorbs and retains heat to a much greater degree than the immediately overlying air; the difference depending on the surroundings, but being in one instance as high as 11°.

A. T. DRUMMOND.

Montreal, Can., March 12.

#### INDUSTRIAL NOTES.

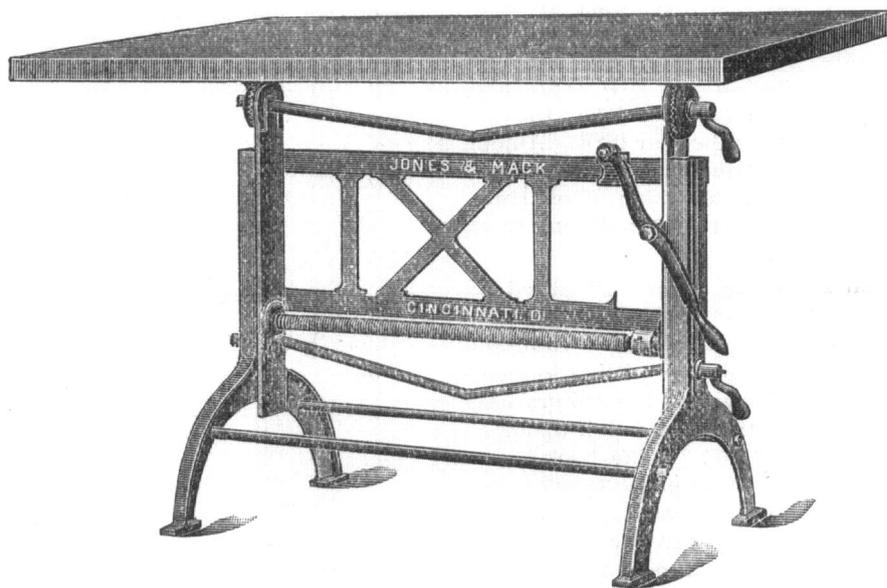
##### A New Drawing-Table.

The principal features of the improved drawing-table shown in the illustration are that the drawing-board may be raised or lowered with one motion of the hand, and that the board can be tilted to any desirable angle. The vertical sliding pieces

attached to the under side of the board have racks engaging with wheels on the ends of the horizontal shaft, shown at the bottom of the sliding frame. A spiral spring is wound around this shaft for the purpose of balancing the weight of the parts to be raised, and insuring the board against falling if left at any elevation without clamping. The board is raised or lowered by means of the lever attached to the sliding frame which works on a fulcrum fastened to the stand. The clamping arrangement consists of a bent tube, its ends bearing against the inner sides of the sliding pieces. A bolt is passed through

this tube, and, in clamping, it tends to straighten the tube, thereby forcing the ends of the tube against the inner faces of the sliding pieces, and holding these pieces firmly at any height. The advantage of this clamping device is that it does not tend to draw the stands together. The arrangement for tilting is easily seen, and the device for clamping is the same as the one just described.

The stand is very light, and at the same time extremely rigid and firm, and, with the clamping-screws tightened, there is no liability to slip, even if the draughtsman rests his entire weight on the edge of the board. These drawing-tables are manufactured by Messrs. Jones & Mack of Cincinnati, O.



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