



SAwniva Macurves-Hiram Wells, of Firence, Mass.




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 frae nyself to the use of any of the particular mechani-
cal devices described,
nor to the use of any particulat marks or characters in the several registrations, as such
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Remaris.-There seems to have been no curious inventions for the year 1856. The number of inventions, however, in particular classes, and of articles in some classes, is somewhat remarkable-for instance, in class I, nearly one-third werefor Harvesters, being eighty-seven, and Planters being thirty-seven. There was fifty-three inventions in Fire-arms. The offer made two or three years ago, by a firm in Vermont, of $\$ 10,000$ for a Sawing Machine for Mar ble, set inventors to work, and was followed by the issue of twenty-six patents for such ma chines. It would be useful and interesting to inventors especially to know if any of these machines came up to the demands of the gentlemen, and whether the money was paid, as promised.
The Reports for 1856 seem to be carelessly compiled. By the tabular statement (page 2), we have given as the number of patents.


By List of Patents........................................................................292 2,52

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\begin{aligned}
& \text { Additional } \\
& 27 \\
& \text { Designs. } \\
& 107
\end{aligned}
$$ 2,292

By Index to Vol. III., from 14,008 to 16,323 , inclusive.............................. 2,316 2,50
Additional Improvements.
27
It will be seen, from the above, that outof returns from four different sources, no two agree. Again, in the alphabetical list of patentees, there are several errors. On page 71, the name of James A. Cutting is omitted for a re-issue, dated Aug. 12, 1856. On page 100, the re-issue to B. J. La Mothe, is stated to be in Class X., instead of a re-issue. Page 106, an additional improvement granted to John F. Mascher is placedin Class XVIII. Page 107, patent to W. H. McNary (No. 16,285) is placed as a re-issue, instead of in Class III. Page 125, re-issue to T. J. W. Robertson, is placed in Class III. Page 139, re-issue to A. Swingle, is placed in Class III. These errors have been discovered in forming the above table. It may be said they are slight, and errors must be expected, but the utility of the tables and classification
destroyed, unless they are correctly made up. This must be evident to every one. T. G. S.

Tin versus Gold for Teeth.
Messrs. Editors-In 1841, the second molar tooth in my "working" side of the under jaw became decayed in the center of the crown and forward, so much so that it was very sensitive. Not being where a dentist was accessible, I undertook the job of filling it. I cleaned the cavities and enlarged them slightly sidewise, and filled them compactly with heavy tin-foil, the only thing I could get; thinking that as soon as practicable I would have the thing more artistically done. It is now seventeen years since I did so, yet the tooth has been used constantly, is emphatically a " working" tooth, andis as sound and strong, apparently, as the day it was filled; it has not (owing, I suppose, to the non-conducting properties of the tin) shown the slightest sensitiveness. The metal seems as durable as gold, and if so, is $f$ ar preferable on several accounts. I shall never have a tooth filled with anything else, if I should need such work done again. R. H. A
Baltimore, Md., January, 1858.

## Steam Ice Boat.

The Janesville (Wis.) Standard describes a steam ice-boat, projected by J. Ward, of that place. It is to be a small steamer, minus the wheels, and be placed on runners. The method proposed to propel it, in the absence of wheels, is thus described:-
"There are to be two belts of india rubber passing fore and aft under the deck, over pulleys, driven by the cngine; and to the belts, which run parallel to, and near each other, there are connected dogs or poles, inclining upward from the ice to the belts at an angle towards the bow, and while one is passing from front to rear, the other is dragging to the front, and so act alternately, making tracks once in forty feet, or more than the length of the belts."
This method of propulsion appears to be an endless belt grappler.-Eds.

## Torsion.

This term is applied to the twisting or wrenching of a body by the exertion of a lateral force. If a slender rod of metal be suspended vertically, and, having its upper end fixed, be twisted through a certain angle by a force acting in a plane perpendicular to its axis, it will, on removal of the force, untwist itself, and return with greater or less velocity, again to a state of rest. The limits of torsion within which a body will return to its original state, depends on its inherent elasticity.
A fine wire of a few feet in length may be twisted through several revolutions without impairing its elasticity, but if carried beyond a certain point, the fibers or particles will be torn asunder and assume a new position, as, for example, in a lead wire, before finally breaking.

## Atacamite.

Chloride of copper is a mineral of a green or greenish black color, and adamantine or vitreous luster. It occurs in massive fragments, in rhombic prisms and rectangular octahedrons, which give off fumes of hydrochloric acid gas when heated before the blowpipe. This compound is found in Saxony, the neighborhood of Vesuvius, and the desert of Atacama, between Chili and Peru. In Chili this mineral is ground into powder, and sold under the name of arsenillo, as a sand for dusting letters.

A New Comet.-H. P. Tuttle, of the Harvard College Observatory, discovered a telescopic comet on the evening of the 4th inst. It was first seen at half-past seven P. M., and makes the fourteenth comet discovered at that Observatory. It is in the northern part of the heavens, and can only be seen with a powerful telescope.

We Americans have manufactured 25,965 miles of railroad, which, if it could be stretched in one continuous line around the waist of thousand miles for a bow-knot.

