

dropped off. The little Press of Mentz, multiply-
-ing itself, folds over and over in the Century;
improvements in this art, began to tell on the world,
in the improvements that followed in other things.

It began dimly to foreshadow this truth -
the demonstration of which, would require cen-
-turies of time - that "a people educated cannot
be enslaved" - This was the Plough of the 14th
Century, that broke the ground for a reform as
great in the Science of Civil Government as it
did in that of the physical Sciences.

And herein we see the wonderful co-adapt-
-ation of means to an end. Take away the right
of a man to own himself - his labor - his brains -
his right to think - to speak - to enquire - to know,
and the earth will again be ploughed with
a crooked stick.

But this old world had been
so long, preoccupied by the doctrines of Despotism -
that it would be vain to attempt to establish a
system of Government there, giving the enlarged
liberty, necessary, fully to develop the resources

Nature had in store for the free cultured mind,
which the Printing Press was about to develop.

So, co-incident with the discovery of the art—
the wind that bloweth where it listeth—whose
coming or whose going no man knew—carried
on a wave of the Atlantic, to the shore of
the Mediterranean Sea, a single card stock.

And mark the Providence—it found an
eddy, in which to whirl itself, to attract the
attention of the idler, or the curious, no where
but at Genoa in Italy—a seaport town that
excelled all others in its knowledge of the art
of ship-building & the science of navigation, &
whose wars with rival cities, on the waters, had
trained her sailors, to toil & exposure & to coast
adventure for its very dangers sake—But
above all, because it was the home of Christopher
Columbus—a man of great knowledge of mar-
-a-time affairs, of iron will, of indomitable ener-
-gy, & of great courage—whose big soul, unknown
to himself, was in sympathy with the progress,
the world was gathering up her forces to make.

And mark another significant fact connected with this period. Just a little while before, the Compass had been adapted to navigation. And no where had it attracted more attention than at Genoa - and by no man was it more thoroughly understood than by Columbus.

The how & the man had come - That little Genoa, to day grown to a city whose commerce is reckoned by millions, & whose Palaces fill with amagement the navigator who enters her port - but honors herself by the statue she ~~erects~~ ^{erected to the} ~~erects~~ ^{memory of} the man; who is the crowning glory of her greatness - and we shake hands with her to right, to revive an acquaintance made with her, when the prow of her ships kissed both continents.

I will not stop here to consider how important to the world in its onward progress was the discovery of America. That will reveal itself by & by - We will also have little to say now of the wars, & the revolutions, which, under the direction of a controlling Power were only the means to the same great end.

although the blind occupants of the Thrones
which were meant to be established thereby,
never dreamed of the purpose to which they
were giving themselves. They failed to see, as
too many do now-a-days - "Gods in History"

It is now particularly our purpose,
to consider the results reached, as a consequence
of the labor of educated mind, in the peace-
ful pursuits of life. For if bloodshed revolution
and bloodshed are now than the incidental
causes, in the worlds progress towards the high
plane she is fitting herself to occupy in the
sphere of ~~Gods~~ ^{the} universe - it were well the day
of fire that is to burn her up were hastened.

The necessary consequence of educating
the man is to make him work. Do ~~many~~ I
encounter many a sceptical look when I make
this declaration? Does that look ~~say~~ ^{ask}; is it
not a noticeable fact - that the learned are
~~pretty much the only ones who~~ the very ones
who don't, while the uneducated are pretty
much the only ones who do work? That

is worth a thought. What says history? What were the Athenians compared with the people of any other city or state contemporary with Athens in the days of her greatness? ~~The most enlightened~~ So far excelling in what they knew - that this city was known then as it is known now - as the seat of Science - attracting to it from far & near the student in search of knowledge. But have you forgotten a fact stated a little while ago, that this intelligent men - their leading men ~~I would now~~ ^{Artists,} say, with scarcely an exception - Orators, Poets, Philos-
ophers - all - gave some portion of their time to toil.

It was what they had, as well as what they ^{knew} ~~were~~ that gave them ~~this~~ renown.

And what will you say of New England - our own Greece? of Boston our own Athens? Do you discover in their customs nothing to justify the conclusion I would establish - that the educated man is the working man.

What is Science? It is only a knowledge of things that exist & the laws that govern them - And this knowledge leads to discovering ways of doing things

a little easier, a little quicker, a little better, and a little cheaper than can be done some other way.

But can no discovery be made except by Science? Yes, by Art — that is the slow way of finding out things by trying. But the earth had grown many more ploughs before she opened her bosom to the cast iron share, if Art alone had come to her aid. But when Science and Art, together, began to express themselves, world wide enough through the Press, to affect the common mind, that mind began to ^{to think} ~~mind~~ ^{to} ~~invent~~ — and the hands began to labor, as neither mind or hand had ever done before. ^{Science} ~~the one~~ elevated ^{Art} ~~the other~~, and both together, they gave stimulus to Labor, because they made it profitable.

So Labor, another of the mighty forces that moves the world, stepped forth as the ally of the little German Press.

The Wheel began to revolve — the Shuttle to fly — the Loom to creak — the Bellows to blow — the Anvil to ring — as never wheel, or Shuttle

or loom, or bellows, or anvil ~~had~~ ^{had} before.
And Commerce trimmed her sails anew for
the marts of trade that opened up, on every
river and every sea. —

But, in the progress of times,
Civilization, by reason of the enlarged light that
had dawned upon the world, increased its wants.

The Genius of progress foresaw ^{to drive its Machinery} that other power
than that the world had ~~ever~~ known would be
a necessity. — And mark the wonderful resources —
and the wonderful course of development, He,
who presides over the affairs of man, possesses &
employs to work out his own grand purposes.

Where shall such a power be sought? Upon
what Alpine height, or in what unexplored valley
of earth does it lie concealed? Go with me
to a cottage that stands in ~~base of~~ Scotland.

An old dame busies herself with her simple
domestic employments, and the while holds
converse with a neighbor. Her son, a lad,
sits on his stool looking into the fire that
blazes upon his mother's hearth stone.

an old Tea-kettle, that had hung upon the same hook, for ~~many~~ how many long years he couldn't tell, raised and dropped its lid. An unseen hand, with a magnetic touch ~~knocked~~ ^{cast} a thought into that striplings mind, ~~that~~ ~~burned in unison with~~ as he sat gazing at the bubbling kettle, while it raised & dropped, & raised and dropped its lid — The mind and the Power met at that humble fireside.

~~And the growing light of the 18th Century fell not in vain on him in vain.~~

Jamey Watt grew to be a man. And the growing light of the 18th Century fell not on him in vain. With the keen relish for Science which a mind like his only possesses - he gave himself to study & reflection - and as he advanced in years the despised Tea Kettle took the dimensions of a Boiler, & the force that moved the kettles lid had set the engines piston rods in motion.

The Steam Engine - the most munificent gift that Science ever gave to art, ~~offered itself a tribute to the little boys of the world,~~ ~~leth~~ ~~its~~ ~~strong~~ ~~right~~ ~~arm~~ ^{mighty} to the worlds progress.