

various manifestations would be found equal to that expended by the sunbeam in disengaging and carrying the moisture spherules to the upper regions that were condensed into raindrops during the progress of the storm. The sun has marshaled its forces silently, so that no one is aware of the vast energy that is being expended until the storm bursts upon us.

Another form of stored energy is manifested in the winding up of a weight or spring; the amount of power that has been expended in winding up the weight may be utilized in its descent when released to drive machinery, as of a clock, and perform various kinds of work. The function of a machine, and its only function, is to distribute energy that has been stored, in a manner that will be most convenient for our purposes.

Energy cannot be created by the introduction of any form of machinery. By no possible means can more work be gotten out of a machine than it has required to create the energy of position which will drive it. Not only is it true that we cannot get more power out of a machine than was put into it, but in practice it is true that we cannot get so much. If all kinds of friction could be done away with, we could take out the same amount in effective work that was put into the winding of the weight, but no more. If