

ed, how laid out, how arranged, how manured, how cultivated, the different kinds of crops, the quantity and proportion of each, the rotation, and in these days of science, it should have a smack of Agricultural Chemistry, the science of fitting the elements of the soil to the requirements of the crop. If such an essay were what I think it should be, it would be almost every word of it just as applicable to Agriculture on a large scale by the farmer as to Agriculture on a small scale by the gardener.

Yours truly,

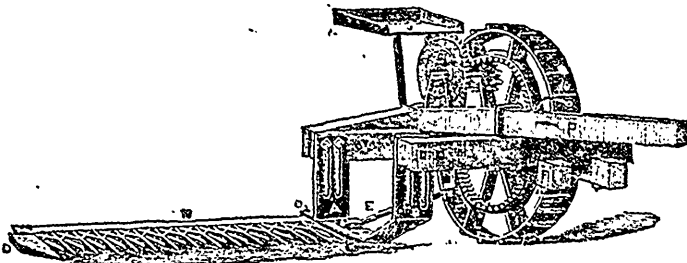
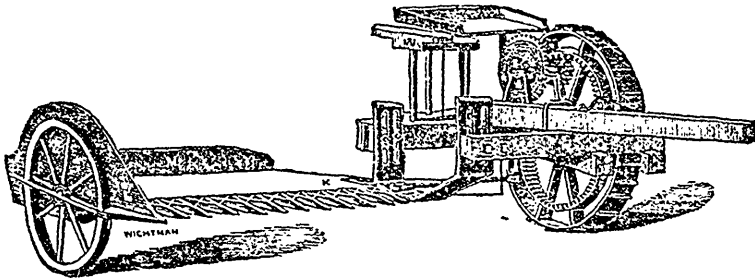
(Signed) ANDREW BELL.

C. P. Treadwell, Esq.

### REAPING AND MOWING MACHINE.

As the season for grass cutting is near at hand, and as laborers are unusually scarce, and wages high, the farmer is obliged to look about him for such helps and substitutes as may be available. We consider it part of our duty to examine and point out to our readers such new improvements in agricultural machinery as may fall under our notice, especially where they promise a great saving of time and expense in the important operations of the farm. The Reaper has become "a great fact," in England as well as in America. Whenever the ground is sufficiently

level, and the crop in an upright condition, the Reaper is undoubtedly a labour-saving machine. The "Mower" is perhaps not so generally known, but in our opinion, in its present improved form, it is quite as important to the farmer, who needs its assistance, as its more famous relative.—Several attempts have been made to combine these machines, or in other words, to make a machine that would both reap and mow. Until last year these attempts, so far as we can learn, have not been very successful. The difficulty in the United States was increased by conflicting patents, the inventors of one improvement not being allowed to avail themselves of those of their neighbors. A Company at Buffalo has now, it appears, by purchase or agreement, combined these improvements in such a way, as to make a machine for \$130, which, they allege, is equal to Hussey's machine as a Reaper, and Ketchum's as a Mower. We have seen this machine, and so far as an inspection enables us to judge of its merits, we are disposed to regard it favorably. We hope soon to witness its performance in the field, when we shall be able to speak more confidently. Below are cuts of the machine, showing its appearance as a Reaper, and as a Mower :



FORBUSH'S IMPROVED REAPING AND MOWING MACHINE.

We subjoin the following extract from the Company's Circular :

"The Company have the most satisfactory

estimonials, that it will accomplish all that is claimed for it, and are satisfied after a thorough investigation of the relative merits of the different Mowing and Reaping Machines, now before