ests. We will suppose, by way of illustration, tent, in Agriculture. The proof of this is visible that a farmer has an annual harvest, consisting of 100 acres of grain. This quantity, with an machinery and improved implements of husbanordinary horse power threshing machine, could not be threshed under thirty days; and as we previously stated, a large share of this work available-the British farmer has it in his power, would have to be done at a season when he could ill spare his team from the plough, but if an engue were employed instead of horse power, this trouble would be remedied, and the other purposes for which it could be converted, would, in many cases, return a larger profit than the farm steelf. A ten horse power engine, and all the other apparatus complete for work, would not cost more than £300; and after the threshing and winnowing grain were completed, with a trifling extra expense, a few sets of circular saws could be set in motion for sawing firewood, vaneering, &c., &c., and during at least six months of the year, it could be converted into a regular saw-mill, to be driven night and day, excepting Sundays. The slabs, and other refuse boards, and saw dust, together with a half a cord of well seasoned wood, would drive a ten horse power engine twenty-four hours. It is not generally known that saw dust, when first taken from the log will burn, almost equal to the best of wood The Inmber business is a most profitable one, and will undoubtedly improve, inasmuch as the great scarcity of wood in the United States and Great Britain, will give an increasing demand for the best descriptions of seasoned lumber. Maple, birch, basswood, and butternut lumber is in great demand in Great Britain, and we see no good reason why the farmers of this country could not devote their energies during the winter months, in preparing for the British market, good clear lumber which would otherwise be allowed to go to waste. Where water power cannot be had, steam could at least be employed most profitably in this business.

## Steam-Power for Farmers.

The extended application of the Steam-Engine, ATTCHIE, F R. S S. A &C., Civil Engineer Edm-burgh. Premium, Ten Sovereigns.

has made by the influence of her steam-power better done; for horses, in the threshing-mill,

ignorance, and be indifferent to their own inter- ing effect, though perhaps not to the same erin the strenuous exertions made by agriculturises, of late years, to avail themselves of the use of dry to economize labor. With the power of thsteam-engine at connaand-although not now, perhaps, to the extent it may ultimately be made at a moderate expense, on almost every farm, to lessen the labor of the barn, to extend its apple cation to various useful purposes, and to place form economics in a position of advancement which they have not intherto attained.

> By far the greater portion of the threshingmills erected in the agricultural districts of Scotland are propelled by horse-power, but however convenien, the use of the horse-walk and fixed threshing-machine was to the farmer, and justry considered, when introduced, as a great improvement in barn operations, and is yet esteemed so. still it has not been without its inconveniences, but when contrasted with the laborious employ ment of the flail, yet so generally in use throughout the world, its greater expedition and efficiency become apparent; and, when we consider that the use of the flatt was better than the feel of animals, we may be enabled to form some idea of the value of the hoise-mill to farm pur-. poses. Still, of later years, the intelligent farmer has hailed, with much satisfaction, the opplication of a new impelling power to the threshingmachine-a power whose dominion extends over every branch of the arts and manufactures of our country-which has given an impulse to modern nations, a command over the produce of every climate, and of which the most learned nations of antiquity never could surmise.

The application of steam-power to farm putposes seems by far the most important improvement which has been made, connected with Agriculture, in these times, and must, from its obvious advantages, soon supersede, every othe power, except, perhaps, in a few isolated situations, where an ample water-power can be c5tained, or where the smallness of the farms make it unimportant.

It is a good many years since steam-power was first applied to farms in Scotland, and, w the borders of England, in some few instances, from twenty to perhaps thirty years; but it s only within the last ten or fifteen years that a has become general, if it can even be said to be yet in general use.

The advantages of the steam-engine over wird. as the impelling power to the threshing-machine. or other Impelling Power of the Threshing- appear to be, that it is always ... command, and Machine, to farm purposes: being extracts ready to perform the work required by day or from an Essay on this subject, by Rovert night. Its advantages over water-power are. that neither heat can dry it up nor cold freeze it. Its advantages over horse-power are, that the The rapid advancement which Great Britain motion is more regular and the work must be and machinery in manufactures, commerce, and generally pull inequally, while the strain upor artification, has not been without a correspond. the limbs, in this severe work, proves injuries