Plowing, its Object and How to Accomplish it.—New and Valuable Invention.—A 2-4 Horse Subsoiler.

THE REAL OBJECT OF PLOWING it is well known, is not to turn over an immense quantity of soil without disintegration, but rather to change the relative position of the particles. It is a fact well known to every practical and intelligent farmer that Plowing from 5 to 8 inches in death, year after year, has practical and intelligent farmer that Flowing from 5 to 8 inches in depth, year after year, has the effect of closing the pores of the earth, and forms a hard pan under the surface, on which the water either stands in pools until evaporation takes place, or runs off into creeks without filtering into the ground, and thus afford nour-ishment to the water of growing plants in the nitering into the ground, and thus anord inour-ishment to the roots of growing plants in the heat of summer. Barreoness of soil and ex-haustion of the grain bearing qualities of land are the result of this system of light Plowing. To obviate this difficulty of light Plowing—to get a proper depth of pulverization without entailing the expense of purchasing and working the heavy subsoiling Plows, we have introduced what we call our COMBINED PLOW AND SUBSOIL ATTACHMENT. This can be used on a common Plow, and is composed of an anti-friction wheel placed between the land side and mould board of the Plow, and a Subsoiler formed of two coulters, set into To obviate this difficulty of light Plowing-to and a Subsoiler formed of two coulters, set into an iron frame immediately in rear of the wheel, an iron frame immediately in rear of the wheel, and talling from 6 to 8 inches below the bottom of the furrow. The wheel is placed about three-quarters of an inch below the land side of the Plow, and by resting on the furrow lessens the draft on an ordinary Plow about 200 pounds, as has been proved by actual experiment. By this means it makes up for the resistance of the subsoiler, so that the whole is no heavier in draught than an ordinary Plow. The Cultivator teeth which form the subsoiler are placed about the width of the furrow apart, and by so tearing up the earth under the furrow that it is completely pulverized. One grand advantage in these attachments is that they can be used with a common Plow, while by their

plowing. The great advantage of subsoiling is now fully recognized, and in this country, where the average of dry weather is greater than in Europe, subsoiling is a necessity to good crops. It prevents plants from suffering in dry seasons by enabling their roots to spread in the soil. In wet seasons the pulverization of the soil causes the excess of moisture to pass off below the surface, and in stiff, clayey or other tenacious soils, by the use of the attachment the hard pan or stiff under soil which is formed by repeated plowings to the one depth is epened and pulverized, allowing freer circulation to moisture, and

use a common Plow is made a subsoiler, and

yet can be drawn by an ordinary team without

more difficulty than is experienced in ordinary

a greater radius to the roots. Those who are now using the Combined Plow and Subsoil Attachment with a common team, can almost say that they have discovered another farm beneath that represented on their

Strathroy, Jan. 10th, 1872.—I have tested Lamb & Warren's Subsoil Attachment and Light Draft for plows, and found it to exceed my expectations. My experience as a plowman extends to 40 years, partly in Canada and partly in Scotland. In all that experience, varied as to localities and soils. I have nover found anything to equal this simple invention. The Subsoiler is a complete pulverizer, and the Anti-Friction Wheel so great an assistant, that two horses are all that are needed in the stiffest soils. The plow went to a depth of six inches, and the pulverizer six inches below in the trials to which I refer.

JOHN BURNETT.

Strathroy, Jan. 10th, 1872.—I have seen Lamb & Warren's Subsoiler at work, and affirm that I have not a tool in my garden that so effectively pulverizes the earth at the depth of 12 inches.

WILLIAM PHILLIPS, Market Gardener.

We, the undersigned farmers and others have tested Lamb & Warren's Combined Plow and Subscill Attachment thoroughly, and unhesitatingly pronounce it a perfect success and believe it is destined to be of great benefit to every agriculturist. In recommending it we feel that we are recommending an article that will prove of immense benefit to farmers: Wim. Rapley. D. M. Cameron. S. G. Chamberlain, A. Hilton, Luther Bullard. M. Street, Wm. Chalmers, F. Kittredge, Die Bettridge, M. A. M. B., Richard Saul, W. H. Saul, Wm. B. Walker, W. Sellers, Isaac Moore.



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Though our convenient and well appointed Offices, together with their entire contents, were totally destroyed by the recent Great Fire, yet the reliable old PRAIRIE FARMER, which for more than 30 Years had wended its way, Winter and Summer, through storm and sunshine, without intermission. to the firesides of its thousands of readers-true to its record, never missed an issue, but has been mailed regularly, every week since the fire, to all its subscribers. It has put on an entire new dress, and goes forth as neat and attractive, as handsomely illustrated and as replace with varied and instructive contents, as ever. But our loss has been very heavy, and years of hard labor and frugality can scarcely repair it : yet, with God's blessing and the help of our friends, we shall strive to earn prosperity and win a greater measure of success for The Prairie Farmer than ever. The brethren of the press have usanimously uttered noble and cheering words of praise and encouragement, and our patrons everywhere—the old wheel-horses of Western agriculture, and the readers of but half a year's standing; the wives and mothers, the boys and girls-have spoken and acted words of sympathy and support far beyond what we could have expected or hoped for. And now, as the long winter evenings are upon us we are casting about to see how it may come to pass that we can to some extent, repay all this spontanceus outburst of generosity and ardent support that indeed proves the whole world kin. We hope to do this by sending to the fireside of each patron something that shall instruct, something that shall improve. something that shall amuse, something that shall suggest thought, something that shall stimube seen at our office.

Under date of March 29, Hon. Horace Greeley, of the New York Tribune, writes: "J. Ball, of our city is a conscientious and responsible man, who is incapable of intentional deception or imposition". Prof. W. Merrick, of Lexington. Ky, wrote April 24th, 1869: "Without my Spectacles I pen you this note, after using the Pater I vory Eye Cups thirteen days, and this morning perused the entire contents of a Daily Newspaper, and all with the unassisted Eye.

Truly am I grateful to your noble invention; may Heaven bless and preserve you. I have been using Spectacles twenty years; I am seventy-sone yours old. Truly Yours. PROF. W. MERRICK.
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