eight of three stories, lumber sheds, umber stacks, etc., etc.

THROUGH THE SHOPS.

During nearly a week's stay here have made daily visits to this hivof industry, and its hum has become music to my ears-a music, I am sorry to say, that is seldom heard south of Mason & Dixon's line. My first round was made with one of roprietor as guide, but there is always a certain restrain amone employes when the employer is about, so I got carte blanche and up on other days wandered at wil through the great works. Of course, the very existence of so com heated a concern depends upon system, method, orde, and amid all this a parent chaos, the clatter, smoke and conf sion, there is perfect system-"harmonious discord." In the first place, there is a gate-kee er who checks in and out every workma, and each department has is foreman, who is respon ible to the superintendent, who is responsible to the president. In all this ores of timber there is not a plank whose lumber age is not recorded; in all this world of wheels there is not one but can be picked out upon the order of the foreman the wheel room, to any manufacturer. You wan more a gacity han in the selection Every piece of timber goes through four inspections before it reaches the workman, and no material has run the gauntlet until the year's guar anty of the finished work has expi ed. The lumber is obtai ed most y from Ir diana and Michigan, special orders as do the Studebakers. tories, no less than of nations; and, though some second-growth nickory, used exclusively in axles, is obtained from Kentucky. Last year tries; and the fact that the goods Centennial year, instituted the custhe factory paid out for lumber \$132,-062. This year it has paid for the as consciention ly made as those for ployes a year's subscription to any same up to August 1st, \$136,043, and "special orders" is increasing the weekly paper he might select. This has had at one time on the tracks awaiting unloading 135 cars.

HOW WHEELS ARE MADE.

Plato has declared that the construction of a perfect ideal circle, with all points equi-distant from the centre, is beyond the reach of human ingenuity. Philosophically and mathematically considered this is probably as true to-day as when Plato wrote, but practically the perfect wheel is un fait accompli. Beginning with the hub, the sawed block is turned upon a la he o something of the proper shape and laid away for two or three years to complete the process of seasoning. If in that time it has cracked and split it is rejected; if not, it is cut down to the proper shape and size and passed to the drop auger and chisel that mortice the holes for the spokes. in two minutes-two men boring and morticing from eighty to ninety a day. Iron bands are then p t upon the hub, wh ch, after steaming is ready for the spokes. These are driven home by two or three strokes of a trip-hammer driven by s eam and worked by a treadle. the hub is then revolved upon a fixed centre and all the spokes are cut. equal lengths by a fixed saw. By turning the wheel and pressing a lever the spokes are tenoned ready for the felloes. These are fitted on by hand, and the wheel is revolved upon an ecc-ntric, and the wh-el dresser cuts down the felloes to the width of the tire, finishes two faces and rounds the edge of the wheels. The wheel is then coated with hot linseed oi! by a peculiar process of their own, whereby the pores of the wood are thoroughly filled, and then pa-sed to the dry-rooms, whence it is taken after some weeks to the tire shops. Here are two glowing fur naces that heat the tires. In a pool of water is an iron platform, the glowing tire is thrown upon it, tongues and hammers are applied, and in less time than it takes to tell is insured for one year, but such is it, the tire is on, and boys with drop the character of the work that the bits are boing holes in it for the nails. A conical-shaped augur bores the hub by mearly pressing a lever, and the wheel is ready for the boxing. The boxing is smeared with a slushing of linseed oil and lead, and placed in position upon the hub and forced in by a hydraulic pressure of 120 tons. If there is any defect in boxing, hub or band, such a pressure is sure to disclose it, but if the boxing go home without anything giving way, it is there to stay until the corroding tooth of time shall ear the employing 225 hands, and turning wood away. A stock of 3,000 or 4,000 wheels ahead of the trade is kept is under a separate management, constantly on hand, and no unsea- thorough and complete in all its desoned material is ever allowed in partments, embodying all the skill, any of the work.

chanical helps that genius can contrive and capital procure.

LABOR OMNIA VINCIT.

The Studebakers have succeeded W. F. Studebaker, son of "P. E."

in their line, but by studying the factory. wants and tastes of their customers, and by representing their wares exactly as they are. Confidence is a

by not only making the best articles having charge of the carriage manu-

A HAPPY FAMILY.

Of course, in a business so extenvery necessary article in trade, and sive, the proprietors must have the to such an extent have the Stude assistance of many thousand heads



bakers won it that their special and hands, and in no other respect order trad- alone would be a f rtune have the Studebakers displayed such and such a vehicle, made of of able and faithful assistant, and such and such material. You must infusing into their work men rely on the integrity of the manu an interest in their work facturer in having made exactly that partakes somewhat of a what you want. No other manu- sense of proprietorship. Education is 'acturers get so many of these a cheap derense of large manufac-They pour in not only from all over appreciating this fact, the Studethe c untry, but from foreign counmanufactured "for the trade" are latter almost to to the full ext nt | custom is still kept up, and though of the carriage works. Can more it costs about \$1,500 per year, the be said for any manufactory in the proprietors consider it money well world?

world within themselves, draw upon | the general depression that has un all the mechanical world for til recently pervaded all manufacts improvements in their line. While invention is constantly going on within, they are constantly convenient cottages are provided drawing upon invention without. The skein-setter, the apparatus for per mouth, and many of them have putting on tires, the hydraulic press for forcing in boxing, and O'Brian's | foremen have been selected from priming, are inventions that have the rank and file, and are in thonot only brought down the cost of rough sympathy with the men unwages, but have greatly increased | der them. Recently Captain H. L. their value. Under the old hand- Hinds, superintendent of the wagon made, shop-work system, it cost works died, and one of the workmen them three dollars a set to put in was promoted to his place. The the boxes; it now costs less than 30 prospect of such promotion is a great cents, and the work is done one incentive to good service, and, judghundred per cent. better.

bility and floish of the machine family of the Studebakers. made wagon are incomparably superior to the shop-made. True, there is much cheap machine work of a worthless characte, thrown upon the market at figures impossible with first-class manufa turers like the Studebaker-, but that is the fault of the maker and not the mahinery. The proper use of machinery is not only to increase produchuman hand. Every piece of wood N Eone-fourth Sec. 21, T 1 N R 1 W. and iron is marked by rule, and He names the following witnesses to prove shaped by machinery so fixed that fon of said land, viz. there can be no variation. This, with the excellent material used, ! insures the perfect fit of every part, Utah, Christopher J. Thompson, of Salt Lake and the consequent per ection of the County, Utah. whole. No timber is used until it has seasoned at least three years, and all axles are made of the best quality of hickory, carefully selected and rigidly inspected. Every wagon insurance scarcely costs the manufacturers ten cents to the wagon. In fact, the world wide reputation merit has won for their work is the best guaranty of the superior quality of their productions.

THE CARIAGE FACTORY.

In addition to the immense wagon works, the company have in the heart of the town, and occupying one of the handsomest five story brick buildings, a carriage factory, out nearly 190 vehicles per week. It mechanism and art required for the As in the manufacture of the production of any and every style of wheel, so with that of every other fine carriage, buggy and spring part of the wagon - there is order, wagon. So popular has become the system, intelligent supervision, the Studebaker carriage, that this debest of material, and all the me- partment is largely engaged in filling special orders. The two factories are connected by telephone and both are run by the same company, J. F. Studebaker, the secretary, and

bakers, on Christ nas day of the tom of giving to each of thei emspent, as it has enabled the work The Studebaker works, while a men to inform themselves upon tories, and thus prevent discontent, murmurings and strikes. Neat and for the workmen at a rental of \$5 purchased homes of their own. The ing from outward appearances, I Wagons are now sold at \$70 that am disposed to include the whole formerly co.t \$140, and the dura- army of employees in the happy

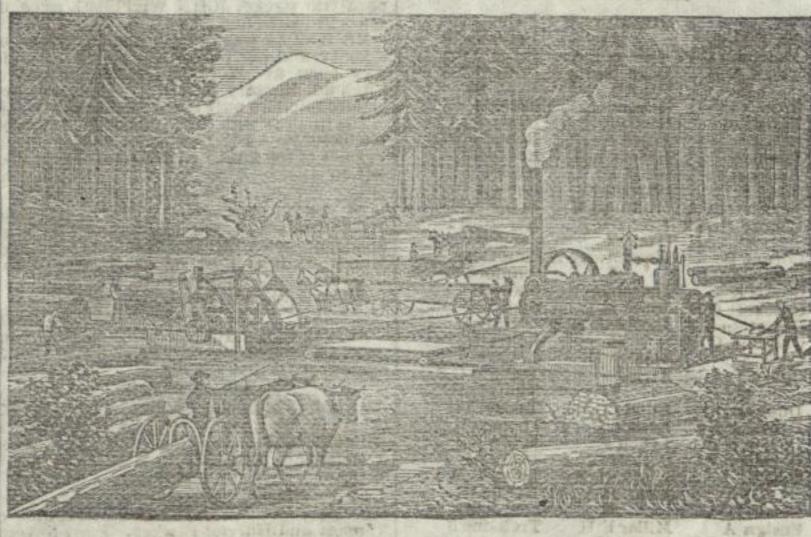
LAND OFFICE ATSALT LAKE CITY, UTAH,

NOTICE IS HEREBY GIVEN THAT THE following named settler has filed not ce tion, but to improve the quality of f his intention to make final proof in support production, and a character of work is turned out from this manufactory that is impossible with the unaided N. F. one fourth Sec. 20 and N. half

William A. Barron, of Salt Lake County, Utah; Sames Gilisple, of Salt Lake County, Utan; James Thomson, of Salt Lake County,

H. MCMASTER, Register.

SAW MILLS & ENGINES!



Manufactured by the J. I. CASE THRESHING MACHINE CO., than which no firm in America has a better reputation for FIRST CLASS WORK.

Portable Saw Mills, any size, either SINGLE or DOUBLE.

Engines, 12 Horse, 16 Horse, 20 Horse and 25 Horse Power, either mounted on SKIDS or on WHEELS.

Call at my Depot and examine Samples; you will pronounce them the neatest and best rigs you e er saw. Send for Price List and Terms.

THE J. I. CASE PLOW CO'S.

STPLOWS! 201

CHILLED PLOWS, all Sizes: STEEL PLOWS, all Sizes: SULKY PLOWS: HARROWS.

I have handled the C se Plows for two years and said but little about them, as I desired to see them thoroughly tested before recommending them to the Public, I now say that their STEEL PLOWS He FQUAL TO ANY, and, in my opinion, their CHILLED PLOWS. SUPERIOR TO ANY.

Private Pure asers and Co-operative Stores will find it to their interest to buy these Plows, which are taking the lead in the Market.

I also still handle the universally popular

GANG & SULKY PLOWS & CULTIVATORS.

CONSTANTLY IN STOCK,

Seed Drills and the Ladow Disc Harrows.

A number of parties who have used them near Kaysville, pronounce the Ladow Disc Harrow, the greatest Labor Saving Implement for putting in Grain they have ever seen.

I have a very Large Stock of RAILROAD CONTRACTORS SUP. PLIES, such as SCRAPERS, CRADING PLOWS, TENTS. HARNESS, Etc.

Fish Bro's Wagons and Carriages, McCormick Machines, Wagon Stock and Hardwood Lumber. STEEL BARB FENCE WIRE. TO

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THE OFIRE ATED

