THE DYING CENTURY PASSED IN REVIEW

REVOLUTION IT HAS WROUGHT ON THE FARM.

Spirit of Invention, Typical of the Country, Applied with Such Direct Benefit as to Make the Oldest of Occupations New-How Agriculture Has Profited Through American Ingenuity.

Whatever have been the accomplishments of the century in material things, the tiller of the soil has been at the foundation of it. While inventions have been building up the vast industries which employ so large a number of the earth's teeming millions, the inventor no less has been busy with the problem of their feed-Without him the farmer's task would have proved too much. The inventor has waited upon the farmer's needs in the emergency until the influence of the patent office upon the agriculture of the new world is as marked as that influence has been upon any other industry.

INVENTORS' ENCOURAGEMENT. In the foundation of the United States its designers, with almost prophetic vision, made certain the protection of mechanical genius by a clause in the Constitution giving congress power "to promote the progress of science and useful arts by securing for limited time to authors and inventors the exclusive right to their respective writings and discoveries." In 1750 the first statute was framed on which letters patent were granted, and it is significant for agriculture to note that seventh application for a patent in the new office was upon the designs for a threshing machine, the invention of Samuel Mulliken, of Philadelphia.

There are accomplishments of the century not to be measured by dollars. but aside from these the world's practical inventions are the things that will time of wooden nutmegs the handleraft of the yankee has been acknowledged round. brain and hand beyond that of any first importance has granted so long

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Germany	15	\$1.3
Brazil	15	- 1
Great Britain	1 14	
Belgium	20	4
Spain		
Austria-Hungary		- 3
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France		- 1
Italy	10	
British India	14	- 1
Russia		
Canada		
United States	17	

In these figures alone may be seen an incentive to American genius, and one of the chief reasons for the thousands of small patents which have made fortunes for manufacturers and inventors in the United States. law in this country has imposed no burden upon the inventor. It requires that a skilled craftsman may be able to duplicate the article when the life of the patent is ended.

PATENT LAWS STILL FOUGHT.

Recognizing what patents have done in the progress of the world, it is odd to recall that in 1869, when 2,000,000 oxen were tolling in the yoke in the English parliament was attempting to ing-peg is his only equipment and even abolish the patent laws of that country. Speaking against the laws, R. A. ing to his own specifications. The cot-McFie held that the state was not ton picker, too, has only his hands. bound to grant patents; that they were Roth the corn field and the cotton evidences only of royal favor.

voluntary transference by the state corn and cotton harvesting methods to an individual of power for fourteen is for the future, years to tax at pleasure other persons for making or doing the thing patentaye, if he likes, to prohibit or withhold the thing altogether."

But since that time Great Britain union, having for its object the protection of the inventor in foreign lands. Nearly a score of countries are in the league, and in any one of them an inventor may claim a right of priority for six months following his application at home; or, if the country be of time in which to make his applica-

Not all of the animosity to patent laws has died out. They have been texts for the adversaries of monopoly for many years, but to small practical results. The vital welfare of the United States has been too closely connected with the patent office to admit of blocking its progress.

century the farmer was scratching the surface of the earth with a wooden plow, reaping his grain with the sickle of a thousand years ago and treading it out, as did the ancient Egyptian in oxen released from the yoke as too the time of Moses. Today the wheat acreage of the United States is sown by the automatic drill, cut by binding machines, the shed and winnowed by steam thresher and measured in total beyond 500,000,000 bushels a year.

THRESHING MACHINES PER-

FECTED. The American farmer of sixty years ago was hard-headed and conservative beyond reason. His interests were variet He was hunter, trapper and settler, first; for the rest, farmer. His ancestors had built log cabins, cleared forests, grubbed stumps and planted, and for him, only the heavy timbered river bottoms had attraction. It was common belief that the smooth prairie land, with its tough sod, was worthless for agriculture, and in this very nearly was the death knell of the forests, sacrificed to an almost wanton waste. He split walnut trees for rail fences, that today would purchase the lands that he toiled for ten times over. He dragged into heaps and burned sawlogs that would have made his grandchildren rich. "New ground" was als watchword, and he grubbed and tugged and toiled, aged long before his time, and died at last the victim of

the philosophy, "Daddy did it."
Today, on a homestead claim, fenced with a few strands of barbed wire, a grandson cultivates more upland prairie than one man ever cleared in lifetime, and his crop averages are for more bushels than the grandfather

ever dreamed of. About the year 1825 the inventor in

the United States began to turn his attention to the needs of the farmer. The cast iron plow was the first innovation, which took slowly with the peoble. For more than ten years thereafter the wooden tool was used widely.

The threshing machine came next, but it was not a success. Two hundred and forty patents had been granted on these machines prior to 1825, but not until 1840 were the machines per-fected and available to farmers' needs. Up to this time the treading-floor and the flail were the methods in threshing and ten bushels of wheat a day was a good average for one man, Since then more than 2,000 patents have been taken out on threshers until the modto 6,000 bushels of wheat in a day.

ago was used in the United States at the show still larger game is to be had, the beginning of the present century, while pigeons innumerable help the With his left hand the harvester larder out most agreeably. The great grasped the bearded grain in a bunch things to be avoided are the leeches. and with the crescent blade cut the those pests of the land that make a straws at the ground. Thus by hand- hunter's life anything but a happy fuls the sheaves were made and bound.

CYRUS H. M'CORMICK'S MACHINE. for grass cutting. Soon the finger at- walk to Semud Hitam, the lower cave, tachment above it was conceived and the principal tenants of which are the "cradle" was adapted to the cut- swallows and bats, living in a style ting of sheaves. The cradle was swung very much like the little man and the after the manner of the seythe blade. Hittle woman who form the weather the five wooden fingers about it catching the straws as they were cut and is out, and vice versa. In the case in carrying them in a bunch to the left, point the swallows occupy the cave at out of the way of the next stroke. Cyrus H. McCormick revolutioned

chine, driven by horse power and in- bats are prepared to pay up arrears volving the principle of the saw-tooth in guano, sickle. From the mower of the hay field came the "dropper" of the grain consist of a marine fucus-a species of field-a tilting, sickle-bar attachment the through which the grain was carried by the bird. The Japanese are said to in straight bunches until it was large have discovered a means of preparing enough for a sheaf when a movement | the seawerd by hand so as to exactly of the driver's foot released it. A imitate the consistency of the nest, trouble with the dropper, however, was The nests are found throughout the isthat it left the grain in the way of the lands in this section of the archipemachine on its next round. From this lego and are often sold in the markets came the self-rake machine, which col- They make an excellent soup without lected the bundle on a platform. When any very decided taste beyond that of mark it for future ages, and in this in- it was of sufficient size the rake arm gelatine. The birds weave them with genuity the United States has been dropped down and swept it in a quar- much patience and insensity in spite foremest above all nations. From the ter circle off the table, dropping it out of the continuous depredations made of the track of the machine on its next | upon them.

been exhausted in its work in the har- Looking from the entrance to the place other nation. No other country of vest field. Today one man and two in which some of the nest collectors horses, with a binding machine, go live, we had a fine chance to see this a life to a patent, while in fees the round and round a field, cutting the migration and were amply repaid for cheapness of the process in the United grain, measuring it into sheaves, bind- whatever hard work we had been States is strikingly shown in the fol- ing it, and carrying it, twelve sheaves through. We viewed the entrance to in a bunch, to the hands of the one | the cave over a yawning gulf some 100 Life in Office shock-builder-the driver and the yards across and of a shape closely er, however, was through a stormy half hour or so before runset the first period. The United States scarcely column of bats appeared, and after many states of the central west the a dense cheese-shaped mass, the head displaced laborers of the harvest field of the column wheeled to the right. made war upon it burning barns and almost over our heads, and went down same territory complain of a scarcity ular order. of help in harvest-suggestive of the fact that where machinery has un- dashed voraciously into the thick of

MAIN CHANCES REMAINING. only that he file in the patent office a man who tills the soil. The traction were counted, each about 600 feet love clear description of his invention, so engine has come to the aid of his by ten feet thick. A rough estimate horses, and the chemist has put new life into the very ground that yields give a total of not far from half a milhim its abundance. Indian corn is the hon bats, not one of which went away United States, that on element in the hands of the farmer. The steel huskthat seems to have been made accordfield have interested the inventor and "Every patent," he declared, "is a taxed his brain, but the revolution of

Everywhere the yields from farm plantings and sowings are greater than ; they were from the virgin richness of the country a hundred years ago, Even as between 1880 and 1890, the became a member of the international crop production of the United States showed an increased per cent, of yield to each acre. Crop rotations, improved machines in cultivating and harvesting, and above all the once despised 'book farming." are responsible for the change. The successful farmer of today is a student in methods. across seas, he may have seven months knows something in chemistry, he has the benefit of seed selections that have been made according to the science of nature, and more than ever in the world's history he is exempt from the stress of unfavorable sea-

In the United States he has ranked. agriculture above every other occupation. He has seen the evolution of the business within the last forty years. At the beginning of the nineteenth Five million farms have been laid out over the country, valued at \$15,000,000. 000 and producing \$4,000,000,000 annually in live stock and crops. Since 1860 he has seen nearly 2,000,000 plodding slow for service. He has made the production of composts a great industry. An agricultural press has sprung to life to wait upon his needs. Cities of giant grain elevators have grown up, and the milling business of the United States has become one of the great industries. The cattle trails of the West have been obliterated by the plow, but his blooded beeves bring prices such as the cowboy never dreamed of in his round-ups of the "long-horns" of the prairies. Inven-

tion, system and method have put their stamp upon farming. As the their stamp upon farming. oldest occupation of man, it has evolved into one of the newest and as such it is one of the promising industries to take upon itself the imprint of the twentieth century.

BATS AND SWALLOWS.

Myriads Occupy a Cave Together in Morth Borneo. Correspondence New York Times

One should by no means fall to maka trip to the Gomanton Caves while staying at the hospitable station of the British North Borneo Trading ern steam machine, self-feeding and company at Sandakan. The trip to stacking its own straw, pours a stream | the caves is of interest to the sportsof winnowed grain into bags faster man, for en route you can get a short than one man can remove them. Where now and then at a wild pig, the meat the great "heading" machines are oper- of which is exceedingly savory; then, ated, a steam thresher runs from 2,000 too, you stir up an occasional alligator and have a fine chance for a display The reaping hook of a thousand years of marksmanship, Tracks of wild cat-

A trip through the heavy jungle, after leaving our boats at the river's The seythe came next, being used bank, brought us at the end of a brisk night and the bats by day. Rent is collected from the swallows in the methods with his first mowing ma- shape of edible birds' nests, while the

The esculent nests of these swallows sea-weed in other words-elaborated

The exit of the immense swarms of by the world, and his country has put In the perfection of the self-rake it a premium upon the product of his was thought that human ingenuity had Hitam is decidedly a unique aight. "shocker" doing the work of a dozen resembling that of a horseshoe, in men in the time of the McCormick which space the bats go through their "dropper." The evolution of the bind- | wonderful circumrotations. About a was ready for it when it came and in whirling around from left to right, in smashing the machines in the fields. the valley follower, by the rank and Now, with all the labor-saving devices | file in a long coll winding over the of farm machinery, the farmers of this treetops in wonderfully close and reg-

Four or five hawks appeared and made one industry it has established the bats. In half a minute the second column issued, and after a preliminary revolution, followed the first, dis-In every line of farm work the inventor has eased the burdens of the man who tills the soil. The traction ten feet thick. A rough estimate of 10,000 bats to each column would giant of the cereals in crop production, without a preliminary gyration to as it may be always. For this the in-ventor has done nothing save in the perfection of tools for cultivating and ers, and were, perhaps, fatigue parties planting. Its billions of bushels are left behind to put things away so that harvested every year by the patient they would not be swallowed. Snakes of a vellowish hue appeared with the first of the bats, but as far as we could see did not have any luck in catching a bat.

> The swallows appeared close upon the departure of the last winged buttalion, and all right long there was a ceaseless whirr of wings. The attendants by waving sticks knocked down two swallows, whose diet had evidently been ants of the winged species. Next morning, shortly after dawn, the half million bats returned and literally rained into the horseshoe space in pen order, with the same time cross-fire of swallows issuing from the

The men who collect the nests are a short, thick-set race, and have probabiy inherited the vocation. They lie on their backs on rattan ladders some 100 feet, more or less, overhead, calmly smoking eigaretter, while detaching the nests with long poles, and quietly dropping them into baskets suspended under the ladders. A couple of rattans dangling from the ladders afford a means of swinging to more distant places, where they hold on in some mysterious manner while driving pegs of wood in some hole or cranny to secure the ration to. Lives are often lost, but on this subject we couldn't get the collectors to say much.

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UNITED STATES NOW FIRST IN THE RACE

GROWTH OF ITS IRON AND STEEL INDUSTRY.

Mr. Charles H. Cramp Gives Some Interesting Facts, which Show That the English and German Shippards Bust Come to This Country as Purchasers of Raw Material and That Germany Will in Time Equal Great Britain as a Maritime Power.

From a Letter in the Washington Post.

The statistics of iron and steel production and of the correlative output of ore, coal and coke exhibit that the United States began to range up alongside of Great Britain in 1889; that between that year and 1896 there was a close race, with sometimes one and sometimes the other slightly in the lead; that in 1897 the United States passed Great Britain by a million tons in output of pig iron, and that in 1898 the lead was by nearly two and a half million tons in favor ofthe United States, the totals for that year being 11,773,006 tons for this country against 9.342,000 tons for Great Britain. The output of the United States for the first half of 1855 was 6 289,000 tons, which indicates a total for the year of about 12,506,000 tons. Complete British statistics for the first half of 1899 are not accessible, but enough is known to justify an estimate for the whole year but little if any in excess of 1898-say, 9,500,000 tons. This would put the United States in the lead for the year \$899 by the enormous amount of 3,000,000 tors, or a ratio of excess over Great Britain equal to 31% per This lead can never be broken. The

economic laws that produced it must continue to operate, and their operation must tend always to widen the gap, never to close or even lessen it. For several years Prof. Goldwin Smith has periodically announced the attainment by England of her climax as the supreme power among nations. Various causes have from time to time operated to postpone the actual verification of the professor's theory; and it is within the range of possibility that the iron and steel product for 1893 or 1899 may be slightly exceeded in the future. Be this as it may one element at least of Prof. Smith's doleful prophecy has at last become an established fact, namely, that England has been, by the advance of the United States, permanently relegated to the second place as a producer of iron and

BASIC INDUSTRY OF ALL.

It will, I think, be conceded without argument that the production of iron and steel is, under modern conditions, the basic industry of all, and that the tendency in every direction is to emphasize that fact more and more year by year. It is not necessary to adduce particulars in verification of this great fact. Suffice to say that all traffic by land is now done on steel roads, all traffic by sea in steel ships, all fabrics are made by steel and iron machines, and that the affairs of industry and commerce are day by day more and more transacted in steel buildings.

From this point of view and without minifying the importance of any other industry, it is not too much to and steel has become the gauge or standard of national supremacy; and that the fixity or permanency of that standard is already settled beyond peradventure.

Having seen that the United States stands at the head of nations in the primary industry of modern civilization, and that no possible combination of events can ever disturb that supremacy, we may now turn briefly to onsiderations of the components or the natural bases of that supremacy in the raw or primary condition. The foundation of steel and iron production is, of course, coal and iron

In the case of the United States to coal may be added, to limited extent. however, and thus far quite localized

natural gas. However, for general purposes it is prime elements, coal and iron ore; and exact figures being 5.988,000 tons. in this connection the coal element material sultable for cooking or gasproducing.

Great Britain, is 9,360 square miles, so nearly all that the residue is not worth mentioning, is suitable for coking or gas-producing; particularly in view of the latest approved processes known as the Otto-Honman and the the single element of coal. Semit-Solvay.

COAL AREA OF UNITED STATES. The grand total coal area of the United States, exclusive of Alaska, is 107,000 square miles. This means only the areas where coal has actually been developed by sinking shafts in greater or less number in each coal belt.

But of this vast area not all is susceptible of the uses of iron and steel production.

The United States geological survey gives 1.700 as the square mileage of anthracite coal fields of Pennsylvania which, of course, must be excluded. A great part of the far western coal areas may also be excluded from the

iren and steel making category, the

coal deposits in that region being forms of lignite in greater or less stages of development, but not up to the point of coking or gas-producing. Making the most liberal allowances for all these deductions, it is sufficient for the purpose of this paper to say that the coal area of the United States known or developed wholly or in part

which bear coking or gas-producing

coal is considerably more than 70,000

sounce miles. The vertical extent, or, in other words, the depth of these deposits as compared with those of Great Britain. are at this time indeterminable for the reasons that they have nowhere been worked to the point of exhaustion or driven to such depths as to render the holsting of the product nearly or quite unproducted, which is beginning to be the case in certain parts of the British coal fields.

On the whole, it is safe to say that the coking or gas-producing areas of the United States are to those of Great Britain at least in the ratio of 8 to 1, and all the probabilities of future de velopment point to a considerable augmentation of this ratio in favor of the United States without taking account of the possibilities of vertical exhaus-

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We now come naturally to the other element involved, that is to say, iron

CONSUMPTION OF IRON ORE. In 1898 Great Britain consumed in round figures 18,000,000 tons of iron ore, wor'h while to consider only the two of which one-third was imported, the The prime importance of this very

must be limited to the kind of that large importation and of the ratio which it bears to the total amount of ore used in Great Britain during the and it may be said that there is no it represents or expresses the fact that all the British coal area, or at least considerable quantity suitable for the production of mild steel; therefore, in 715,000 in 1898. the present state, and under existing requirements of steel production, Great Britain has within her own area only

On the contrary, the United States possesses in what is known as the "lake regions" apparently inexhaustible supin the known world.

To these resources may be added the ity of which is quite equal to that of any of the Southern European or African ores which England uses. the Cuban ores may be said to lie at our very doors, if not within our own area, a question at this time rather of politics than economics.

The foregoing general resume of prithe basic or fundamental reason for the attainment by the United States of the absolute and irreversible su mary conditions may serve to indicate premacy over Great Britain as an iron ore and steel-producing power.

We may now, partly for the purpose of an interesting illustration and party to lay foundation for comment farther along upon the financial and industrial conditions necessarily involved call attention to the fact that the state of Pennsylvania, representing mainly one-sixty-sixth of the area and onethirteenth of the total population of the United States, has ever since the year 1892 produced more than one-half of the entire output of American pig iron, nearly three-fourths of the output of all kinds of steel ingots and castings in the United States, more than three-fifths of the total output of Ressemer steel rails and between one-half and four-sevenths of all kinds of railroad iron and steel in finished

During the same period Pennsylvania has produced in the annual average nine-seventeenths of all the coal mined in the United States, and in round figures a little over two-thirds of all the coke made it: America.

PIG TRON IN PENNSYLVANIA. To this exhibit it only remains to be added by way of showing the relative ; like those of an cid-fashioned square | floor matting,

production of pig iron in Pennsylvania has grown from a minimum of 3 370,000 tons to a maximum in 1898 of 5.537,000; the production of steel ingots and castings from a minimum of 2,979,000 tens te a maximum of 5,285,000; the production of steel rails from a minimum

of 714,935 to a maximum of 1,043,000; the production of all kinds of railroad iron and steel in finished form from a those who had visited him walled minimum of 5.719,000 tons to a max-, away. The total area of British coal fields, year selected as an example is that | imum of 4.622 000, in 1838; the production of coal from a minimum of 91 .undeveloped coal area remaining in the indigenous ores of Great Britain 833,000 to a maximum of 118,547,000 tons are in the highest degree or in any in 1898, and of coke from a minimum of 5.062,000 tons to a maximum of 10,-

In conclusion it remains only to be said that the established sugremacy of the United States as an iron and steel producer must bring the English and German shippards to the United States as customers for raw material. This will increase the advantage of plies of the most perfect Bessemer, or. Germany over Great Birtain more and in other words, steel-producing ores, more, as each nation becomes more and more dependent upon the United States for raw material; so that ultiextensive fields of Cuban ore, the qual- mately and not far distant the situation thus brought into effect will promote the realization of the ambition so often expressed by the German emperor of making Germany at least equal to Great Britain as a maritim power, and whatever these effects may be in these directions their ultimate effect upon the general wealth of the United States must be incalculable.

STRANGE PHILIPPINE PETS. A Baby Rhinoceros and a Performing Sun Bear Cub. Hollo Correspondence New York Times.

One sees strange pets in these new that amused us all very much during way contrive to lie on his back on the recent visit was a baby rhinoceros that was being brought up by hand. "Master, what happens when one finds a little rhinoceros that had no mother " was what the native who had the little one asked my friend. "Who is there that has killed the mother of length of the veranda. These and oththe young one?" was the guarded re-

It is a misdemeaner to kill these animals except under certain circumstances, and the natives had probably been playing high jinks in the jungle Of course all knowledge of the demise of the mother was absolutely denied, but the possible suspicion that if the circumstances were found out somebody would suffer brought the price of the baby down to the very lowest

progress during the seven years taken plane. Two teeth had already made es a basis of consideration that the their appearance and there were evidences of others about to come. The daily diet was supplemented by leaves that the young fellow enewed in great shape.

But he dearly loved his bottle of milk, and the fuss he made about it was truly laughable. Then, too, another interesting thing be did was to set up a terrific whining whenever

The drollest creature of all was a Malayan sun bear that was a perfect running river of harmless merriment. He had been picked up in the jungle as a very small cub, and when on allfours, his most infrequent position, was about a yard long and half as high. He was an admirable performer as a biped, and the first sight of him was enough to u; set most people's gravity as he came forward to greet the stranger with a rolling, lurching gait and a most absurd rosemblance to a miniature mariner in an overcoat of black fur and slightly the worse for liquer.

No stranger could ever be persuaded that the extraordinary performances of the animal were not the results of teaching, instead of being solely the work of native genius. He possessed --for he ouite und estood "meum," if not "teum"-a rough wooden ball about the size of a Dutch cheese, and with this he would constantly practice a series of feats with as serious and solemn an air as if he were training

for a symnastic championship. He would deliberately stand on his head for some minutes, the ball balanced on the soles of his hind feet. Then he would drop it into his front paws and shuffle along to the edge of the veranda, climb the posts, bugging possessions of ours in the tropics. One+the ball with one arm, and in some top rail, about two inches broad, while he kept the ball incessantly rolling between his four and hind paws. Another trick was to clasp the ball with both arms, and in this position to turn slowly heels over head the whole er tricks he did at his own will and pleasure, refusing steadily to learn from man any acomplishments.

He was the most inquisitive bears imaginable, and wee to the storeroom or wardrobe that was ever left open. In two minutes Pruin's long, sickleshaped claws would drag its contents in a beap on to the floor, while bis ficxible shout would be rooting it in every corner. On one occasion he was discovered in the act of carrying off a clock for investigation at leisure, and The animal was the personification on another, being accidentally shut of ugliness. The horns on its huge into the "go-down," or storeroom, he on another, being accidentally shut upper jaw were just about forming entirely ruined a brand-new saddle and its legs looked for all the world and gnawed into shreds a quantity of