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can，from the Patent Office Records．
LIST Of PATENT CLAIMS
Issued from the United States Patent Office
for the week ending novinber 13， 1850 To Thos．Antisell，of Now York，N．Y．，for im I claim
1 claim the use of a filter，formed as deacri－ bed，carried downwards by pressure，under the force of which the oleic acid is filtered up－ wards，and which applied in connection with the arrangement described for applying cold allows oils and fats to be purified in warm weather．
To Charles atwood $\&$ George Kellogg，of Birming ham，Conn．，machine for making Jaok Chains．
We claim the combination of the parts， movements and operations of one machine which are required to make jack chains by on process，from the straight wire，after it is cut off in suitable lengthe to finished chain，sub－ stantially as described．
We also claim，particularly，the stud－pin with a recess in it，substantially as herein de scribed；that is，the use of it as a mandre around which the bow of a link is bent，while the bow of another link is held in the recess， thereby forming a continuous chain，and irres pective of the mechanical devices by which it is moved or used
We also claim the partly revolving mandre with its stud and nipper and other appenda ges．for binding the last bow of each link，sub stantially as combined and used in our ma ahine，and constituting part of it
To C．S．Bulkley，of Nacon，Ga．for improve
in Repeaters for tlectro Magnetic Telegraphs． vanic circuits wath the two electro－ vanic circuits with the two electro－magnets in
the said repeater，substantialiy as herein re－ presented and described ：to wit，each of the said galvanic circuits，as it passes through my telegraphic repeater，embracing in its course the armature of the opposite electro magnet in the said instrument previous to its passing through the helices in the electro magnet，em－ braced in its own respective circuit．
In combination with the above，I also claim the connecting the points with the galvanic battery or batteries，when the said points are placed in such positions in relation to the ar－ matures of the electro－magnets in my said telegraphic reporter，and that when either one of the said electro－magnets is charged it will， by attaching its armature against one of the pointa，close the poles of the galvanic circuit in which the opposite electro－magnet（in the instrument）is in connection，and thereby throw the battery into the said circuit，substantially as herein set forth．
I＇o Samuel Cannon，of New Richmond，Pa．，for improvement in Seed Planters．
I claim the attachment of my vertical cy－ linders to the rear of my plow or cultivator， （without regard to any particular plow）in cosabination with its machinery，arranged sub stantially in the manner and for the purposes herein set forth．
To S．S．Green，of Lowell，Mass．，for improvemen in Ilorse－shoe machinery．
I claim the combination of the two flanges rotating，disarranged with respect to each oth－ er，und operating substantially as herein de scribed，said dies being so shaped as to giv the requisite form to the metailic shoes of ani mals．
To Aquilla Jones，of New York，N．Y．，for im－ provement in Drying Paints．
What I claim is the method of giving a drying quality to oils by the use of a minera commonly known as the＂red oxide of zinc， in a partially de－oxydised atate，and either in combination with those substances naturally associated with it，or by the use of any of its component parts，seporated by mechanical means．
To John Krauser，Sommers Crowell \＆Cyrus Krau
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to your care，seems to be asfe，meets with at－ tentien，prompti．ess，and is executed in good order．I would advise all，as a friend to their best intereats，to apply to you for advice in making applications for patents，for I belleve that your agency is the surest，safest and much the cheapest of any other known to me．This is the second patent secured through you to me，and I rejoice to know，and I am grateful for it，that those inventors who are not able to make out their own specifications，can have them done honeatly，well and cheaply through you．Your obliged friend，with many thanks，

A．L．Macomber．
Bennington，Vt．Nov．11， 1850.
［The patent was for the spiral double cut and feed Straw Cutter，on page 396 of our las volume．

For the Scientific American
Geology．
Near sixty years have elapsed since syste matic and effective efforts were made in thi science，by men of energetic minds and perse vering research．Prior to that time，indeed， facts bad accumulated and praiseworthy ef forts had been made．Several Arabian wri ters upon mineralogy，as early as the tenth oentury；some Italians in the sixteenth，upon fossil shells，Bocoacio eapecially；Lehman， fossil shells，Bocoacio especially；Lehman，
the German；Palissey，Rouelle，and Guettard， the German；Palissey，Rouelle，and Guettard，
in France；and Owen，Woodward，Llwydd， in France；and Owen，Woodward，Llwydd，
Lister，Mithell，Holloway，Packe，Strachey， and others，in England－will always find a place in the history of this science．Still， however，until the time of Hutton and Wer－ ner，Geology consisted of little else than meie membra disjecta；their theories form an im portant epoch．Soon after，William Smith commenced his extensive researches in Eng land；while at the same time the pupils of Werner，on the Continent，were imbibing the zeal of their master，Saussure was examining the Alps，and Pallas the Russian Empire．Not long after arose the geological constellation，－ in Great Britain，Jameson，Playfair，McCul loch，Greenough，Webster，Canybeare，Buck land，Phillips，Aikin，Weaver，Seymour，Grif fith，Farey，Bakewell，Parkinson，Sowerby and Miller；on the Continent of Europe，Cuvier Brongniart，Daubuisson，Humbolt，Von Buch， Brocci，De Luc，Brochant，and Delametherie and in our own＂country，Maclure，Mitchell， Gibbs，Bruce，Cleaveland，Silliman，Water－ house and Seybert，who led the van in the ef fort to conquer the rocks，and，what was worse the indifference and prejudices of their coun trymen．In the hands of auch men，geology outstripped even chemistry in its progress And ere two decades of years are gone by， we believe this science will deservedly rank first in point of dignity and the extensive range of its subjects．

Physical Aspect of Geological Systems． Granite Districts－Where the rock is soft， the hills have a heavy rounded appearance and are only peaked and irregular in outline whers it is hard and flanked by stratified rocks． The landscape is black and barren；e．g．，the Andes in South America．
Primitive Districts－Are bold，rugged，and unfertile ；e．g．，the Highlands of Scotland and Brazils of South America．
Transition Districta－Are bold and moun－ tainous，and well illustrated by the character－ istic scenery of Wales．
Old Red Sandatone Districta－Are varied and irregular；the hills being less bold and precipitous than those of any subsequent pe riod；e．g．，the Ochils and Sidlaws in Scot land．
Carboniferous Districts－Are tame and un attractive，relieved by few elevations or de pressions of picturesque beauty，and in gene ral bleak and unfertile；c．g．，Nova Scotia and Pennaylvania．
New Red Sandstone Districta－Are rathe flat and gentle，consisting of rounded terraces and level expanses here and there dotted with a gentle eminence；e．g．，the basin of the Sol way，Scotland．
Oolitic Districts－Though pleasing，are less bold than the preceding：longitudinal hollows and dry and fertile ridges undulate the coun try，the latter not exceeding 600 feet in height
e．
．，the southern slope of the Himinalehs．

Cretaceons Districts－Are distinguished by the smooth flowing outline of the hills and valleys，possessing great amenity and rura beauty ；e．g．，the western river－plains of South merica．
Tertiary Districts－Present a level and mewhat unvaried scenery；the soil is light， dry，and unfertile ；e．g．，the Isle of Wight， vicinity of Paris，and valleys of the Swiss akes．

The Foot Prints of the Creato
Mesars．Gould，Kendall \＆Lincoln，of Bos ton，have re－published this splendid work；it should be read by every man in our land．As an evidence of what a working man can do， besides following his daily toil，no work eve pablished presents a stronger proof of the truthfulness of that old adage，＂where there＂ a will there＇s a way．＂The author of this work，Hugh Miller，commenced life in the north of Scotland as a country quarryman－ an occupation of aevere toil．In digging up rocks from the bosom of mother earth，his mind was led to inquire＂how rocks were made，how disposed，and to examine into their history．＂For many yeary he groped on in dark－ ess，without one to assist him，but at length e ascended，step by step，to the front rank mong geologists，and in this book he stands orth in the front rank among authors，both in style and originality of thought．The book ，as a whole，an argument against that work called the＂Vestiges of Creation．＂That work took the position that animated nature was not a creative work，so far as it related to distinct apecies．：the author holding that or－ anism is created microscopic，and that man inot a created but a developed being．It was upposed for a long time that the earliest de elopments were small，for by digging down mong the rocks beneath us，the earliest for－ nations disclosed very imperfect and minute organisms．Mr．Miller，by his explorations， discovered that the earliest organiams were not amall，and that there was no ground for the developement theory－that instead of one class being developed from another，there is a armonious whole，but distinctive creation of This．
This book is a valuable acquistion to the terature and science of geology in our coun－ try．We recommend the stuJy of this science to our young men；let them approach it with pen and not unfaithful breasta，for amid our nountains，grand and tall，our boundless plain and flowing rivers，vast and virgin fields for exploration yet present themelves．

## Barley．

The value of Barley for human food could be shown by various facts in the history and experience of the past，as well as by the aci－ ence and practice of the present．Speaking of Count Rumford＇s experimentsin proviuing food or the poor，the Lendon Encyclopmdia（article ＂Food＂）says：－＂After an experience of more than five years in feeding the poor at Munich，during which time every experiment was made that could be devised，it was found that the cheapest，most asvoury，and most nourishing food that could be provided was a oup composed of pearl barley，peas，potatoes， cuttings of fine wheaten bread，vinegar，salt， and water，in certain proportions．
This plant，although it does not possess the beauty of the wheat，nor the elegance of the at，is nevertheless beautiful in its form and ppearance，whilst it possesses the valuable quality of being more hardy than either of these，and can be grown in climates where these cannot．According to Einhof，the ripe rain contains in 100 parts：－Farina， 70.05 Bran， $18 \cdot 75$ ；Water， $11 \cdot 20$ ；and according to Playfair，it contains in 100 parts：－solid substance，842 ；Water，154 ；Flesh principle， 14；Heat principle，68d ；Bone principle， 2. The form in which this grain can be best used in America，is that known as Pearl Barley， which is made from the＂two rowed barley．＂ The grain is first dried in a kiln，then deprived of ita bran by a mill，and finally made near－ y round by trituation．Einhof states that the farina，of which the pearl barley is chiefly composed contains，in 100 parts ：－Starch， Water，9．37．

