Scientific American.

New India Rubber Case.

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[Reported Officially for the Scientific American.] LIST OF PATENT CLAIMS Issued from the United States Patent Office

FOR THE WREE ENDING DECEMBER 13, 1853.

FOR THE WERK ENDING BOUSDER IS, tool. HTDRANT VALTE-BY James Cachrane, of New York City: I claim combining with the issuing pipe and main cock or two way cocks. Altor conical valve: and leakage wasteways, a piston and chamber, or a partly flexible chamber emptying into and receiving from the issuing pipe, water, between the interval of opening and closing the main and leakage wasteway. I claim, also, the shutting force, by hydrostatic pres-sure and gravity of the ordinary waste water : also the general arrangement of the moving parts by their gra-vity, to favor the shutting force, as set forth.

BIT STOCKS OF BRACES-By John Comstock, of New ondon, Ct. : I claim the arrangement of the ring with its pin or screw, in combination with the eccentric sha ped back catch, and the helical spring, the whole com uned and arranged as set forth.

the composit on of the preparation applied, neither d I claim the application o such preparation for render ing cloth water proof.

Ing cloth water proof. • I claim the application of a dilute solution of india rubberpaste or cement, as described, to cotton or ging-ham umbrella coverings, for the purpo e of enveloping the tiber of the cloth, and setting the color of the same-with eut adding to the weight of the umbreha, as set furth.

Car WHEELS-By Carmi Hart, of Bridgeport, Conn.: I claim the arrangement of the plates of the wheel in the arch at the aub, so that its opposite sides curve in similar curves, adapting themselves to each others and are also ogees, and whose continuation from the apex or point of unison is also an ogee to ther in in combination with the spokes or radii, which are ogees on the sur-face of the inner plate, and also ogees sidewise, and forms a continuous part of the inside plate itself.

the solid overses - By Jos. Nock, of Philadelphia, Pa. I define the application of the stanped round part and the solid part at the moving id or cover), fitted together as a hinge, which ferms a rounded smooth turned with both parts, as described, using for that purpose the aforesaid two pieces te form a regular curviliaear or round turned hinge, made of any materials which with produce the intended effect. INESTAND COVERS -- By Jos. Nock, of Philadelphia, Pa.

SPRING CLAMPS FOR CLOTHES LINES-By F. S. Hotch-kiss & C. W. Blakeslee, of Northfield, Conn.: We claim the connecting t gether of the two levers, as described by one piece of metal, in such form and manner as to constitute both spring and hinge, as set forth.

TURNERYS-By Melvin Jinks, of Wayland, N. Y.: 1 claim the turnkey, as described, in the adjustable clay, constructed and arranged as described, in the adjustable claw with abother claw, and the rolling folcrum having : limited motion.

[In Vol. 7, page 396, may be found a description of this invention.]

BEDSTRAD FASTENINGS-By W. R. Merrill & Freeman Tupper, of Nashua, N. H.: We claim securing the posts and nails together, by means of the Cyrine irons at-tached to the ends of the rails and the claim or dog at tached to the posts of the said corner irons and claims or dogs, being constructed and arranged as described [A description of this invention may be found on page

298, Vol. 8 Sci. Am.]

HARVESTERS AND BINDERS-BV J. E. Nesen, of Buffalo. N.Y. Patented in England Aug. 27, 1838 : 1 donot claim the slotted fingers, nor the teeth, nor do I claim an end less belt, irrespective of the pecular motion communi cated to it. I claim, first, giving the endless apron an intermit

I claim, first, giving the endless apron an intermit ting motion. for the purpose of carrying the grain to the binding hocks, at intervals and in proper quantity said motion being communicated to the apron, by means of a belt shipper worked automatically, from some mo-ving vortion of the machine, as described. Second, I claim gathering the grain in bundles or sh afs, by means of the binding hocks, or their equiva-lents, said binding hook being arranged and operated as shown-motio; being communicated to them by means of the reciprocating bars, as described. Third, I claim gettering the stand described. Third, I claim gettering bars, as described.

[This invention possesses novelty and utility. The

Foreign as well as American patents were solicited through this office.]

through this office.] SECTIONAL BEDSTEAS--By Chas. Page, of North Dan-vers. Mass. I do not claim a sectional bedstead the portions of which revolve upon hinges, for the purpose of more convenient transportation, or of raising the head as may be requir. d: neither dol claim securing the mattrees permanently to the bedstead. But I claim, in a sectional folding bedstead, the com-ination of the adjustable section, with the revolving head and foot boards, as described, by which means the bedstead may, at any time be converted into an inva-lid bedstead, and extended in such manner that the body and head of the patient may be raised and lower ed, independent of each other, his feet being furnished with an elastic foot board, as set forth. Buc Brees-By Los Suwyer & Luman Clark of South

Fig. Resp.-by Jos. Sawyer & Lyman Clark, of South Royalston, Mass.: We do hot clann hanging the rasp of a tool for cleaning out pegs. rom the inside of shees and boots upon a pivot, and allowing it to adjust itself to the position required, as this has been done before, and is furthermore hable to several objections, the removal of which is the object of our present invention. But we claim the combination of the spiring bilt and thun b jecet, or their equivalents, with the pivoted rap constructed and operated as described.

MACHINES FOR CUTTING SHEET METAL-By Jno. Wil-

We here present the decision of Judge Duer of the Superior Court, in this city, on the above case, which was finished on the 9th inst.. It had been on trial several days, and eminent counsel were employed on both sides. The question was between Horace H. Day and William Judson. All those interested in patents should give this case particular attention. Wni. Judson filed his bill to obtain an injunction against Day from prosecuting certain suits in the Circuit Court of the United States, (in which Day is seeking to recover damages for infringement of a patent granted to Edwin Chaffee, and by him conveyed to Day,) on the ground that Judson owned the patent, by assignment, and the conveyance to Day was invalid. JUDGE DUER'S DECISION .- I shall not trouble the counsel of the respondent to reply. I

have reflected on this case from the opening of the argument, and am now prepared to state the conclusion to which I have arrived. I think it quite unnecessary to inquire wheth-

er this Court can rightfully stay proceedings in the Court of a sister State by an injunction, but with regard to suits pending in the United States Courts the case is different. With respect to them the general rule is understood to be, that neither will the Courts of the United States attempt by injunction to restrain a party from proceeding in a suit in the State Court; nor, on the other hand, will the State Court attempt to restrain by an injunction, proceedings in a Court of the United States. Whether that cule is absolute and universal-whether there are or are not any exceptions to it, it is not necessary to decide in this state of the case .--That will be a question which, if your suit is continued to be prosecuted, will arise when a tinal decree shall be asked for. Admitting, however, that there may be exceptions to the rule, as it respects a court of the United States, I hold, that in order to justify a Court in treating any case that is brought before them as an exception to that rule, the following facts must appear :- First, that the complaints must be founded upon the equity that the Court of the United States, in which the suits are sought to be enjoined are pending, is not competent to administer the cause-in other words, that the equity which is sought is one which can only be had in the new suit which is instituted; and second, that the whole controversy between the parties may be determined in the new suit which is instituted-or in other words, that the parties who are sought to be restrained from the prosecution of their suits in another Court, may have exactly the same relief if the controversy is determined in their favor in the new suit which is instituted, as if they never entertained any of the suits which have been commenced. Now applying these rules to the present case, the first condition seems to be fulfilled. The object of this suit is to obtain a final determination of the question whether the prior grant made to Mr. Judson, the plaintiff, on this grant under which Mr. Day, the defendant, claims is valid. That question could not be finally determined in any suits that are brought by Mr. Day against the licensees of the present plainuff. It is true that each of these licensees may set up as a defence the prior grant made to the present plaintiff, and the question as to its validity might arise in this suit; but the determination made between them would not conclude any other licensee, and therefore surely would not conclude Mr. Judson. I therefore think

damages in the suits which he has instituted. I am bound to suppose in determining the question whether the Court will exercise its discretion in issuing an injunction, that the allegations in the complaint may perhaps be refuted, and that in the conclusion of the controversey, the defendant may prevail. Then I hold it to be a necessary condition in all cases where an injunction is to be issued, where a bill of peace is filed, whether in a State Court, or in a Court of the United States, that the party who is thus enjoined shall have, in the new suit thus instituted, the same relief which, if he prevails, he would be entitled in the suits which he himself has brought. Now, if the other parties against whom these suits are instituted, were all of them parties to the present proceeding, and by a final decree of this Court, this defendant could obtain against them here, precisely the same relief which is sought in the suits that have been instituted, that objection would be removed. But they are not parties to this suit, and all that can be determined in this suit, even if it should be decided in favor of the defendant, is that his grant is preferable, and that the prior assignment made to Mr. Judson, the plaintiff, is void. His right to recover damages will remain still undecided, and he will be compeled to prosecute his suit against the defendants, who, in the meantime, may have become irresponsible. Upon the ground, therefore, that this controversy cannot be determined finally in this suit, and that the defendant cannot obtain the relief here which he is seeking to ob tain in the suits which he has instituted, I feel myself bound to deny the motion for an injunction.

In answer to an inquiry of Mr. Stoughton, Judge D. remarked that he never knew of a case where an injunction had issued on the application of a party who was not a party to the suits to be enjoined.

An appeal was taken to the General Term. For Judson, Charles O'Conner and James T. Brady; for Day, N. Richardson, of Boston, and E. W. Stoughton, of New York.

[Our readers will percieve the importance of this case, by the eminent counsel employed. The patent in dispute is that of E. Chaffee, an extension of which was granted by Ex-Commissioner Ewbank.

The assignees of the first term of this patent were Goodyear, Judson, and others, (we do not know all their names) but the extended term of a patent does not become the property of the first assignees; it is wholly the inventor's property; former assignees have no legal right to an extended term. H. H. Day, it seems, has become the assignee of the extended term, but there is a dispute about the legality of his bargain. II. H. Day having become the new assignee of the extended term of Chaffee's patent has entered his suits against a number of old assignees, who have been carrying on the manufacture of prepared india rubber goods as formerly. His (Day's) suits are for the infringement of the patent. The above decision relates to a mercantile transaction; but connected with patents, it embraces new points of legal dispute of no minor importance.

Trial About Selling a Patent.

In this city on Friday the 16th a suit was brought before Judge Ingraham by Samuel G. Walker against Abraham Cox to recover damages (amount laid at \$1,000) for alleged deceit and false representations-plaintiff having been induced, it is said, by defendant to purchase that the main question depending between the and pay \$625 for a fortieth part of "Mallet's parties-namely, which of them has a prefera- Improved Bell Telegraph," defendant knowing

Measuring the Area of a Cirle. Permit me, through the columns of the "Scientific American," either to correct an error or to be myself corrected. In No. 12, of the present volume, were given some good practical rules for finding the area of a circle, illustrated by two examples. If I mistake not, however, there was an arithmetical error in the latter proposition, which stands thus :- $4 \times 22 = 88 +$ 7=126-7; instead of twelve and four sevenths; which latter number would quadrate exactly with that in the former proportion. H. F.

Spring House, Montgomery Co., Pa.

[You are perfectly right sir, and we thank you for calling our attention to the subject .--We saw the error also, but too late for correction in that number; we intended to make the correction in our next, but forgot to do so. We make no excuse, for the error should not have been made; it teaches us to be more watchful of our language.

A more minute rule than the one given above to find the circumference of a circle, when the diameter is given, and thus find out its area, is the following :--- "The circumference of a circle is to the diameter, as \$-14159 is to 1."

This rule we have always used ourselves, it requires more figures than the other, and this was the reason we did not present it, as the other is sufficient for all practical puropses .-What is the circumference of a cylinder, 6 feet in diameter; 6 × 3.14159=18.84954. Old Rule. $7 \div 22 \times 6 = 18 6.7$.

The Illustrated Weekly Record of the New York Exhibition of the Industry of all Nations. Edited by B. Silliman, Jr., and C. R. Goodrich. G. P. Putnam & Co., of this city, having been selected as printers and publishers extraordinary to the the Crystal Palace Association, undertook the publication of the above work, which we have briefly noticed during its pro gress. We are inclined to think that the "Illustrated Record " has not received from the public that degree of appreciation it so justly deserves: this has undoubtedly compelled the puplishers to restrict the quantity of matter originally intended for it. The number before us embraces 15, 16, 17, and 18, although no larger than two single numbers ought under different circumstances to have been. The necessity which exists for its abridgement is to be regreted for in a strictly artistic sense is the most meritoriou. work ever undertaken here.

There is, we think, one good reason only for its apparent failure, viz., the dull and heavy character of the articles. Classicality, want of condensing power, absence of the right sort of stamina which makes up the Peoples' Instructor, too much learning in abstractionisms are incapable of satisfying the universal thirst which now prevails for the arts and sciences. The editors, although able men in their proper spheres, were evidently never intended for this particular species of intellectual labor. Notwithstanding this defect the work deserves support. The engravings which have graced its columns are generally of the first order in point of mechanical execution, reminding us of the designs illustrated in the celebrated "London Art Journal," and the public are indebted to Messrs. Putnam & Co., for the stimulus which they have given to the wood engraving art, an art which is rapidly supplanting all other processes for beauty, rapidity, and excellence .--The "Illustrated Record" will make a very handsome volume, and we hope the public will feel interested in its circulation. The numbers bound will make a beautiful volume of the useful and ornamental-fit for the library or the

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	shears; but I c aim the vise in combination with the trainupon which it moves, and upon which the sheet	ble title as assignee of the original patent-	0	center table.
	rests. during the operation of cutting, as set forth.	is one which will probably be determined in a	• • •	Treatment of Trees in Cold Weather.
		suit between Judson and the present defend-		We occasionally hear of people being quite at
	struction, as described, of the puppet eneck valve, serv- ing also as the piston of a pneumatic spring, and pro	ant. Therefore I would not scruple, perhaps,	ing in the United States Court at the time to	at a loss to know what to do with trees received
	vided, at its lower end, with a small starting valve, sub- stantia ly in the manner and for the objects explained.	even to issue an injunction, provided the other	test the said patent; that plaintiff tendered back	in a cold time, or when the ground is frozen.
	Second, the segmental cylindric stide valve of the dis-	conditions were fulfilled-namely, that this		The way is, either deposit the packages in a
	charge openings having promys as described, connect- ing it with the clack valves upon the supply openings, so tast the motion of the supply valves shall be comma-	whole controversey should be finally determin-	of his money, which was not made and action is	cellar as they are received, or open them and
	nicated to the discharge valve, as ex plained.	ed. I am now considering the case as if the		set the roots in earth until the weather changes
	MACHINES FOR MOULDING BRICK-By John Butter (as signor to James Sully and Jno. Butter), of Buffalo, N. Y :		In defence, it is denied that Mr. C. knew that	
	i claim two hinged followers, so constructed and opera ted as to press the clay uniformly into the moulds, that		there was any doubt in regard to the patent, or	
	is, each end alike, whether operated by gears or levers.		that there was any suit pending, or that he	
		itself that the plaintiff considers it as a fact con-	made any false representations. He says that	ed. They may remain in this state quite safe
	A Lead Wire the thirteenth of an inch, sus-	ceded that these complainants are absolute	he was employed to sell a part of Mr. Howland's	all winter. Every season, we receive packages
	tains but twenty-eight pounds. A Tin Wire,	owners as assignees of this grant; because, if	interest, and referred plaintiff to Mr. H., and	of trees from Europe in mid-winter, and we find
	the thirteenth of an inch, sustains but thirty-four	so, then the question could not arise whether	that plaintiff, after examination, purchased.	no difficulty in taking care of them in this way.
2) lbs.	the defendant would or could not be entitled to		Horticulturist.
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0				