
[Reportod Officially for the Scientifc American.]
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A Lead Wire the thirteenth of ain inch, sustains but twenty-eight pounds. A Tin Wire, the thirteenth of an inch, sustains but thirty-four

## Now Iudia Rubber Case.

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 wer employed on both sides. The question wa between Horace H. Day and William Judion. All those interested in patents should give this case particular attention. Wm. Judson fled his bill to obtain an injunction agains Day from prosecuting certain suits in the Cir cuit Court of the Uuited States, (in which Day is seeking to recover damages for infringemen 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 trouthe the counsel of the respondent to reply. I have reflected on this case from the opening of the argument, and am now prepared to stat he 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 re spect to them the general rule is understood to be, that neither will the Courts of the United tates atiemat by injunction to restrain a pary from proceeding in a suit in the State Court nor, on the other hand, will the State Court at tempt to restrain by an injunction, proceedings in a Court of the United States. Whether that ule is absolute and universal-whether there are or are not any exceptions to it, it is not ecessar'y 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 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, 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 ppear:-First, that the complaints must be founded upon the equity that the Court of the United States, in which the suits are sought to e enjoined are pending, is not competent to dminister 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 ${ }_{\dot{p}}$ and zecond, 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, ras 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 he first condition seems to be fulclled. Th object of this suit is to obtain a final determina
ion of the question whether the prior gran nade to Mr. Judson, the plaintiff, on this gran ander which Mr. Day, the defendant, claims is valid. That question could not be finally de ermined in any suits that are brought by Mr Day against the licensees of the present plain
iff. 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 va lidity might arise in this suit; but the determj nation made between them would not conclude any other licensee, and therefore surely would uot conclude Mr. Judson. I therefore thiuk that the main question depending between the parties-namely, which of them has a preferable title as assignee of the original patentis one which will probably be determined in a suit between Judson and the present defendant. Therefore I would not scruple, perhaps, even to issue an injunction, provided the other conditions were fulfilled-namely, that this whole controversey should be finally determin ed. I am now considering the case as if the application was made tome upon the complaint itself, without any evidence on the other part I have no right to suppose upon the complaint itself that the plaintiff considers it as a fact conceded that these complainants are absolute owners as assignees of this grant; because, if , then the question could not arise wheth
damages in the suits which he has instituted. I am bound to suppose in determining the question whether the Oourt 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 ecessary condition in all cases where an inunction 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 bs a tinal decree of this Court, this defendant could obtain against them here, precisely the same elief 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 defendnt, is that his graist is preferable, and that the prior assignment made to Mr. Judson, the plaindiff, is void. His right to recover damages will emain still undecided, and he will be compel ed to prosecute his suit against the defendants, who, in the meantime, may have become irre sponsible. Upon the ground, therefore, that his controversy cannot be determined finally inis suit, and that the defendant cannot ob ain the relief here which he is seeking to ob tain in the suits which he has instituted, I fee myself bound to deny the motion for an injunc tion.
In answer to an inquiry of Mr. Stoughton udge D. remarked that he never knew of case where 2 n 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 0 '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 emninent counsel employed. The patent in dispute is that of $E$. Chaffee n extension of which was granted by Ex-Com missioner Ewbank.
The assignees of the first term of this pa tent 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 on extended term. H. H. Day, it seems, has become the assignee of the extended term, but here is a dispute about the legality of his bargain. II. H. Day having become the new as ignee of the extended term of Chaff ee's patent as entered his suits against a number of old as ignees, who have been carrying on the manufacture of prepared india rubber goods as formerly. His (Day's) suits are for the infringenent 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 dama ges (amount laid at $\$ 1,000$ ) for alleged deceit and false representations-plaintiff having been induced, it is said, by defendant to purchase and pay $\$ 625$ for a fortieth part of "Mallec's Improved Bell Telegraph,". defendant knowing hat the right to said invention was claimed a the time by Timothy D. Jackson and A. Judson and that a suit brought by t.em was pendgin the United States Court at the time to test the said patent ; that plaintiff tendered back he share in said patent and asked for a return of his money, which was not made and action is brought.
In defence, it is denied that Mr. C. knew that here was any doubt in regard to the patent, or that there was any suit pending, or that he made any false representations. He says that he was employed to sell a part of Mr. Howland's inferest, and referred plaintiff to Mr. H., and interest and referred plaintiff to Mr. H., and
that plaintiff, after examination, purchased. that plaintiff, after examination
The complaint was dismissed.

Measuring the area of a Cirle.
Permit me, through the columns of the "scientific American," either to correct an error or to be myself corrccted. In No. 12, of the pre sent volume, were given some good practical rules for finding the area of a circle, illuatrated by two examples. If I mistake not, however there was an arithmetical error in the latte proposition, which stands thus: $-4 \times 22=88+$ $7=126.7$; instead of twelve and four sevenths; which latter number would quadrate exactly Spring in the former proportion. H. F.

Spring House, Montgomety Co.,
[You are perfectly right sir, and we thank ou for calling our attention to the snbject.We saw the error also, but too late for correction in that number; we intended to make thè correction in our next, but forgot to do so. We make no excuse, for the error should not ave been made; it te
A more minute rule than the one given above to find the circumference of a ciscle when the diameter is given, and thus find out its area, is the following :-" The circumference of a circle is to the diameter, as $8 \cdot 14159$ is to 1 . This rule we have always used ourselves, it equires 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 fee in diameter ; $6 \times 3.14159=18.84954$. Old Rule. $7 \div 22 \times 6=186.7$.
The lllustrated Weehly hecord or 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 publicaition of the above work, which we have briefly noticed during its pra gress. We are inclined to think that the "Illusrated Record" has not received from the publie that degree of appreciation it so justly deserves this has undoubtedly compelled the puplioher to restrict the quantity of matter originally in teuded for it. The number before us embraces $15,16,17$, and 18 , although no larger than wo 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 3 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' Instrucor, too much learning in abstractionisma are incapable of satisfying the universal thirst which now prevails for the arts and sciences. The sheres, were particular species of intellectual labor. Not withstanding 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 eel interested in its circulation. The numbers bound will make a beautiful volume of the useful and orna
center table.

Treatment of Trees in Cold W'ealher.
We occasionally hear of people being quite at a loss to know what to do with trees received a cold time, or when the ground is frozen. The way is, either deposit the packages in a ellar as they are received, or open them and set the roots in earth until the weather changes or a trench may be made in the open ground, ven if the surface must be broken with a pickdhe trees laid in until they can be plant They may remain in this state quite safe all winter. Every season, we receive packages trees from Europe in mid-winter, and we find no [Horticulturist.

