
[Reported Oficicilly for the Scien:ific American.] LIS T OF PATENT CLAIMS
Issued from the United States Patent Ollice for the week ending august $19,1856$.
 Lime KiLs L-Levi Averill, of Elmira, N. . . II claim

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 titand provided with perforated sides, substanially a
described.

 tongue in an
rat
set for arh.
Pr rssing Bonvris - Wm. Osborne, of Louisille, Ky
do not claim any of the separate Farts set iorth.


 oreration, substantially in the manner sete forth, and ir ir
respective of the particular orm of the bonet or frame


















 hese processes
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 aving no sugar or other foreizn matter mixed with it.









 or the purposes specificid.








 Nold or do Iclaim making a window of separate bars uni.
ed by brazing: soldering, or riveting them together, when
en en
















 dily, without changing their angular position, the dis.
ance equired to shut the valves.





















 concave rubbers. forming of ribs in sections parallet to
the rubbers, and gradualy forming a double inclined
the





 sichlo. II am also aware that a aickle has been provided
with back scrapinis projections, presesmint parallel sides



















Locrs-Hjalmar Wynlad. of New York City: I Iam
aware that eccentric disks and ward plates have bee






 necting $\begin{aligned} & \text { and } \\ & \text { rod at as set forth }\end{aligned}$













 helices whe
set forth.
 claim the combination of the reel for gathering th
grain to the outing apparatus and depositing it on the









 spear head for the purpose of affording a soulder on en eac
 and formingan acute angled spaee in fron of ot the sedidee or
the sickle, to render the severing of the grain more easy the sickle, to
and certain.

 thereon, substantially anset forth
Second, the combination with a mechanical rake o






 Cooxino SToves-N. Sestivs. Veder. (assignor to Cox,
Richardson \& Boynton, of Troy, N. $\mathbf{Y}$. Coorung Sroves-N. S. Vedder and Era Ripley
(assignors to (o) Cox, Richardson $\&$ Boynton) of Troy, N. Par Lor $\mathrm{STovzs-David} \mathrm{Hathaway}. \mathrm{(assignor} \mathrm{to} \mathrm{Cox}$
Richardson \& Boynton, of Tros, N. Y .

One Cord of Wood on a Locomotive Our excellent cotemporary the Railway Times, Boston, gives an account of a tive called the Mississippi, built by Roger, Ketchum \& Grosvenor, Paterson, N. J., whic run 125 miles on the Pacific R.R.-Missouriwith one cord of wood. It also states that the a verage run of a locomotive on the N. Y.
and Erie Railroad, is only 26 miles to a cord of wood.
In the account given of the performances of he Mississippi, it is stated that it run the 125 miles in seven hours-that the train consisted of three passenger cars, containing 106 passengers, one baggage car, and Adams \& Co.' Express and baggage car. It is also stated tha 45 miles of the track was an ascending grade of 45 feet to the mile, and 80 miles from 20 to 10 feet per mile.
It appears to us that this feat is not so ery great. The size of the train and the speed must all be taken into account in judging of the economy of fuel in locomotives. The average speed of the Mississippi was only about 18 miles per hour, while the average speed on express trains, on the N. Y. and Erie Railroad, is 35 miles, or about double that on he Pacific Railroad, and the trains on it are also usually far heavier and larger. For double speed, it requires at least four times the quantity of fuel, we understand ; therefore, if we take the greater speed, and great weigh of trains on the N. Y. and Erie Railroad into consideration, 26 miles per hour with one eord of wood, may be as economical as
or 125 miles on the Pacific Railroad


The Buffalo (N. Y.) Commercial states that a steamboat was recently fitted up with an ap paratus to make its own gas, but it has proved failure-the smell was too offensive. Ther must have been some defect in the apparatus or making gas on board of that boat. It is very difficult to neutralize a disagreeable odo
which is generated in making gas. Still, this can be done by proper apparatus, especially it rude rosin oil be used to generate the gas, as

## Mine Water for Boilers.

The Pottsville Journal states that Messrs. Mangay \& Trucks have introduced a method of purifying mine water, by which the acids are removed, and it is made pure and soft a ain water, and so rendered fit for using in boilers, without the destructive effects usual y attending the use of mine water in eating away boilers.-\Philadelphia Ledger.


At the Royal Pahopticon, in London, a thin band of wire is bent or shaped into the form of a word or a sentence and then placed on a sheet of white paper. A powerful battery is discharged through this wire, which melts and oxydates it, and there is left in its place the word or sentence, plainly visible, of a black olor.-[Exchange
[The paper may be whitein appearance, but it must be impregnated with some substance, such as tannin, to produce this result. The unprepared white paper.

