54,260.-Grinding Mill.-Thomas J. Sloan, New York City, assignor to John G. Sloan, Paris, France: I claim the combination of the series of drunken saws for grimding, the
wo series being mounted on two shaft geared to rotate with equal
 and extending into the space between the grindng saws, substantially as
and for the in
The compination of ocifed series of grinding saws with the feed roller Thar tombinarpoose onpecine series of grinding saws with the feed roller
and the interposed rest bar and pressure plates as the equivalent there
 sdescribed, the means or the equivalenthere offor giving to the feed ngg mechanism al literaireciprocating motion or the
in the material 0 qually to all the saws as set forth.
54,261-Grinding Mill.-Thomas J. Sloan. New York
City, assignor to John G. Sloan, Paris, France:
I clizim the combination of the serie of cilaring difks with the series
ot griding or reducing saws when the periphery of the disk sis made to of trinding or reducing gaws when the periphery of the disk sis made to
travel faster than the periphery of the saws, substantially as and for the ${ }^{\text {phr }}$

 54,262 -Grinding Mill.-Thomas J Sloan New York City, assignor to John G. Sloan, Paris, France: I claim the combination of the series of saws with, the series of disks
formed with recesses or buckets in their peripheries for carring and

 I also claim the hopper for supplying the grain to the bucket in the Saws, substantially as and for the purpose described.
And fin finly 1 , claim, in combination with the series

 54,263.-Grain Separator-CCharles G. and William Sto (assignor to Charles G. Stoll), East New York, N. Y.






purpose described.
$54,24 .-$ Banjo- William B. Tilton (assignor to W. Nasb), Now York City
of bayijo or oring ther simparchment head to and within the cylinder or rim


 54,265 .-'Tweer.-James M. White (assignor to himself and David King), Springfield, Ohio:

 51,2GG.-Method for Preparing Magnesium for Burning--
Charles H. Wing, Newton Mass, nssignor to the American Maguesium Co., Boston MIMass:
I claim the forming of magnesium wire or ribbon into the spiral coils hcrein described.
51,267.-Method of Purifying Hydrocarbon Oils.-John dred, Blackheath, Eugland

54,268.-Method of Ventilating Mill Stones.-A. D. Lagog. ney, Paris, France:
 relation with each other and applied to 2 ,
and for the purpose herein specified.
54,269.- Roller Temple for Looms.-J. Mathis, Dornbirn Austria, assignor to H. Kayser, New York City

described. The eccentric shoulders, E , and the digks, d, which separate 54,270 - Cards for Carding M achine. - William Turner, Samuel Shore, and William Halliwell, Rochester, England:
We claminin in tooub and stapler cards $u$ ed in carding machines. the sys.
temof masing the prongs or legs of each staple or tooth of diferent
54,271.-Method of Preparing Threads for Parti-colored
Printing and for Properly Weaving the Same.-Stan

folored printing , and of retaining the in in their proper reatative position
for iven in forten purpose of preventing the marring or disigguring of
desigs or patterns.

## REISSUES.

2,233.-Bank and Safe Door Knob.-Lewis Lilie, Troy N. Y. Patented July 5, 1859.1 . 180 .







## DESIGNS.

2,294.-Ornament for the Head.-Sarah E. Cook, Philadelphia, Penn.:

Recerpts.-When money is paid at the office for subscriptions, a receipt for it will always be given ; but when subscriber first paper a donarido acknoyledgment of our reception of theis tands.

## PATENT-OFFICE DECISIONS

Application for a patent for Improvement in Drilling Wells.
E. Foote, Examiner-in-chief.-The continuous rotar motion of a shaft is made to give the reciprocating simple, and effective. To the shaft is attached a ratchet wheel, and by it, turning loosely on the shatt, is what is termed a crank, to which the rope from the
drill is attached. On the crank is a pawl with its drill is attached. On the crank is a pawl with its spring, a against which the ratchet teeth act and carry hight and the crank passes the center, when the whe whaling, carries the crank and pawl faster than then reconnect, and the weight is again raised.
In the principle of this invention the applicant has been anticipated by a part of the drop press of Mil peck, patented in May, Mit the applicant's claims to the particular arran ment and combination he has made to effect a specifle object. The claims presented in the specification seem to us to be so limited as to present sufficient invention and utility to entitle the applicant to the patent asked for.
mprovement has been produced we are The device that has been supposed to interfere with this is adapted to another purpose, and is not suited to operate a drill, In making the particular applicatio and adaptation, the applicant has displayed invention and rendered an important service.
The decision of the Examiner is reversed.
Washington, D. C., Feb 7 , 1866
., Feb. 7, 1866
Application for a patent for Improvement in Feeding Devices in machines for planing lumber.
E. Foot, Examiner-in-chief-Both the upper and are, in the applicant's device, operated by bevel gear and the two are connected by a sliding rod that admits of their aujustment to diferent he positive motion to botn rolls and he provision for their necessary adjustment without effecting the gear much practical importance. The invention was found to be anticipated by the feeding device in the planin machine of Lorenzo Vance, patented in March, 1864 and the applicantrequested that an interference migh be declared to give him an opportu ity to show that his invention was first made. This the Examiner de clined to do on the ground that the applicant's claim vice from a still older one, patented to Samuel Whiting in 1839. And this is the question appealed to us. In Whiting's machine is found the sliding rod by only is 'propelletment is made, but the upper rolle stead of being carried forward loy two positive rolls pressing upon opposite surfaces, is moved by on ny, which has arso to overcome the friction of the tachments is also less advantareous and practical tha that of the applicant's. The first claim in the applicant's
specification is for the combination with the feed rolls of the two sets of bevel gearing, F V H U, and the slid ing shaft, G, substantially as and for the purposes de that it clearly points out the applicant's invention an distinguishes it from Whiting's, and the Examiner's decision in regard to it must be overruled.
The second claim is for "the combination with the feed rolls for planing lumber of gearing so arranged ither end can rise and fall without changing the pitch line of the gears by which it is driven, substantially as and for the purposes stated.
ny kind of machinery or rearing certain property, that of rising or lowering withou changing the pitch line of the gears. In an invention Which consists solely of a specitic form or arrangemen f machinery, but or properties is improper, as we recently decided in the case of the interference between Tittman and slepy. Besides, this function embraced Whiting's de vice, for in his machine the roll rises and falls without driven. The Examiner was therefore entirely righ in holding that Whiting's device anticipated this claim, third claim.
The fourth claim, which is for the combination with the feed rolls, of mechanism for operating said roll upon their axis and tor elevating and lowering the to eea roll, substantial y as herein escribed, may essed in different language-which to prevent misconstruction is sometimes allowable. Perhaps it is sometimes am say "mechanism for operating both rolls," would re move all d ficulty. with Whitin
The Examiner's decision in reference to the second and third claims is affirmed. His decision in, reference o the third, fourth, fitth, and
Washington, D. C., Jan. 1866.
application for a patent for Improvement in Paper
Ruling Machines.
II. Foot, Examiner-in-chief. - The applicant has every direction by screws and jam nuts. In the mean used there is nothing new. They are all found in othe instruments, and to some extent, in other ruling ma chines. They evince the skill of the accomplished mechanic rather than the creations of the invento The forms are new and skiliful, ,
The decision of the Examiner must be affrmed. Washington, D. C., Feb. 1866.

N. C. G., of Mo.-Some years ago an offer was made through our paper for a machine to feed paper to a printing press, and several patents were granted for different modifica-
tiors. It wasfounddiff cultto meet all the conditions required tiors. It was rounddifficultto meet all the conditions required Rue Philadelphialnuirer is now printed on a self-feeding press Bulloch's patent
B. T. D., Mass., and M. S. M., La.-Straw hats are bleached by putting them in a tight box, at the bottom of which a quantity of sulphur is burning.
E. S. C., Ohio.-A worm wheel 8 inches in diameter, thatrun $\$ 250$ turns per minute, cannot help grinding in driving a spur wheel 24 inches diameter, becsuse the velocity of the two surfaces is so unequal. Moreover, a worm wheel is not adapted to running at a high speed. Some other arrangement should de employed.
N. B. W., Ind.-All instruments that can be used in schools are exceed ngly remaunerative. You must be the fudge as to the probability of yours becoming popular.
W. H. H. $\mathrm{H}_{4}$, of Pa .-The size of the outside of a steam boiler has nothing to do with its power. The efficiency of them depends on their heating surface and the c reulation of the water. Your boiler is 5 feet high and 4 feet diameter, and you ask
us if you can get 16 horse-powerout of it if you have 250 square feet heating surface, and 8 square feet grate surface gou can. Such a boileris not large enough to drive two endnes 8 in piston 14 in. stroke with 250 feet pistoa speed per:mmute, and 125 pounds
J. H. T., of N. Y.-Freezing food for preservation is practicable by the use of chemicals, but the oost of them is an practicable by the use
insuperable objection
S. H. W., of Col. Ter.-We are much obliged for your letter, but the subject has been fully discussed.

## TO OCR READERS.

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