## RECENT AMERICAN PATENTB.

The following are some of the most important improvements for which Lotters Patent were issued from the United States Patent Office last wetk. The claims may be found in the official list :-
Wind Whecl.-This invention consists, first, in at taching the wind wheel and vane to a frame placed on a circular way and arranged in euch a manner that it will rotate under the action of the wind so that the whell will always be made to face the wind This arrangement is designed to supersede the re volving head on a fixed post, the usualplanfor al lowing the wheel to be adjusted to the wind. The invention consists, secondly, in a novel construction aud arrangement of the several parts of the wheel whereby the same is rendered capablo of being readily taken apart for repairs or for other purpoees. It consists, third, in a novel and improved mechanism for stopping and starting the wheel, and also in an improved governor or regulator for controlling th speed of the wheel, and rendering it uniform under variable velocities of the wind. H. S. Wentworth of Norvell, Mich., is the inventor of this improve ment.
Marine Clock.-This invention is more especially designed for clocirs to be used in the engineer rooms of steam veseels. One object is to provide for the winding and the daily setting of the hands, which is necessary at eea, without the greasing and soiling of the dial and inside of the glass, which is almost un avoidable when the winding and setting are per formed in front of the dial in the usual way; an other object is to obviate the difficulty which eome time arises at sed from the loss of the ordinary wind ing key which is difficult to keep in place. And a thind object is to avoid the bending or straining of the hands, which so often occurs in setting the clock by taking hold of the hands themselves. The invention consists in certain improved means of winding and setting the hands applied in combination with a hioged dial, whereby the above results are obtained Victor Giroud, of New York city, is the inventor of the above improvement, and further information may be obtained from Mesers. Davison, Dickinson \& Co., 229 Broadmay, New York city.
Sewing maciine Ciuide.-This invention consists in the attachment to a sewing-machine guide of a roller having a smooth periphery composed of india-rubber or other gum or soft material of a similar nature, of suficient length to press the whole width of a tuck, hem or plait, for the purpose of keeping it smooth and preventing it from puckering, and at the same time preventing it from slipping away from the gage. It also consists in the construction of two plates the nippers of which is flexible and elastic, and between which the work passes with a two-edged lip on the lower plate projecting upward and arranged obliquely to the guide, and with a single-edged lip in the upper one projecting downward between the two edges of the lower lip, for the purpose of drawing the work toward the gage ; the two edged lip also serving, by the greater friction which it produces on the lower thickness of a tuck, fold or plait, to prevent the feeder from moving that thickness faster than the apper one, and so drawing the work and rendering it uneven. W. L. Fish, of Newark, N. J., is the inventor of this improvement.

Boring Machine -This invention relates to an improvement in that class of boring machines in which the spindle is fitted so as to rotate and also slide longitudinally in boses terminating at the outer ends of two arms which project from one side of an upright or pillar. The invention consiets in the arrangement of an adjustable frame forming the bearings for the shaft imparting motion to the bore spindle, and attached to the arms which form the bearinge of said bore spindle, in such a manner that by raising or lowering said frame, different sized wheels can be introduced, and the speed of the bore spindle can be accommodated to the size of the drill aud to the nature of the article to be drilled. The invention consists also in a treadle with pawl for feeding and bent lever click for arresting and releasing the vertical spring, and which connects with the arms forming the bearings of the bore tpindle, in such a manner that by repeatedly depressing ssid treadle, the drill is gradually fed to the work, and by raising the treadle the spring rod is released and the drill
carried back to its original position. G. S. Corwin of Riverhead, L. I., is the inventor of this machine Deck Light.-The ordinary deck lights for ironclad vessels are hinged at the lower end of a tubula case which is fitted in the planking of the decik, and as the latter is necessarily quite thick in order to sufport the iron plating and effectually resist shot, there is a large chamber formed by the case above the light, which catches and holds water at every storm, or when the vessel ships a sea. This water has hitherto been removed by stopping up the same by means of a cloth or sponge, which consumesconsiderable time. It cannot be removed by opening the light from below, on account of the water being discharged upon the floor of the cabin or apartment underneath. This invention consists in applying a faucet to the lower part of the tubular case, in such a manner that the water may, with the greatest facility be drawn off from the tubular case into a per fect receptacle below the light and within the apart ment below the deck. E. S. Hidden, corner of avenue C and I'welfth street, Ncw York eity, is the inventor of this deck light.
Thread oiler for Sewing Machines.-This invention consists in a box of cylindrical or other suitable form provided with an opening for the reception of a sponge or its equivalent, an oil hole for the intro duction of oil or other lubricating matter withou removing the sponge, and a narrow slot into which the thread may be slipped to cause it to work through or in contact with the lubricated sponge, and from which it may be slipped vihen desired without un threading the needle, such box to be attached to the needle arm or other convenient part of a sewing machine between the spool and the needle. It also consists in providing the so constructed box with a clasp by which it may be readily attached to the needle arm or needle operating lever, or other suitable part of a sewing machine, without the aid of screws or other separate fastenings. And it furtier consists in so arranging the opening for the reception of the sponge that it may be closed to confine the sponge in the box by the attachment of the box to the ma chine. O. R. Hyde, East Cleveland, Onio, is the inventor of this improvement.
Fluid Meler.-This invention consists in the em ployment of a movable weight guided by an oscillat ing s!ide which connects with one of two valves that are balanced on a suitable working beam to change the current of the fluid, and moved by the action of the fluid on a flexiblo or movable diaphragm, in such a manner that, by the motion of the weight produced by the action of the fluid on the diaphragm, the valves are alternately closed and opened, and the current of the fluid changed to act alternately on one and then on the other side of the diaphragm, and the quantity of fluid admitted to either side of the diaphragm is registered by the motion of the working beam from which the valves are suspended, said motion being transmitted by suitable mechanism to a registering apparatus, so that the quantity of fluid passing or having passed through the meter can be ascertained at any moment. John Sheffield, of Pultneyville, N. Y., is the inventor of this improvement.

Poper File. -This invention consists in the arrangement of two round, square or polygonal ruds, one being provided with springs which prees against the surface of the other, or against one or more papers placed between the two rods or rollers, and firmly connected to two arms, each provided with a eeries of holes to form the bearings for the second rod or roller, in such a manner that by adjusting the movable rod or roller in the corresponding sockets of the arme, a larger or smaller quantity of papers can be secured between the two rods or rollers, and the papers thus secured can be read or handled with the greatest ease and convenience ; the invention consists also in the arrangement of a movable longitudinally sliding spring gudgeon in one end of the movable roller, in such a manner that by subjecting said roller to a strain or pressure in a longitudinal direction, said spring gudgeon is caused to recede, and the roller is allowed to be tiken out or put into the several sockets of the arms with ease and facility. Samuel Thompson, of San Pedro, Cal., is the inventor of this paper file.
ar Mechanic's Falls, Me., paper is made from a mixture of rye straw and corn shucks.


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** Pamphlets containing the Patent Laws and full par ticulars of the mode of applying for Letters Patent, speci fring size of model required, and much other information ageful to inventors, may be had gratis by addressing muNN \& CO., Publishers of the Scientific Amemican, New York.
0,451.-The Preparation of Yeast.-J. T. Alden, Cinciunati, Ohio. Antedated Oct. 20, 1863
ated ye ast, whe rein the substance is reduced, white prparing gra nu difion to a innoly dirided or granulated state, iand in that form is driti and preserved for use, substantially as set lurth
10,452.-Car Springs.-T. F. Alleu, Canandaigua, N. Y. I clasim the construcilion of a metallic couical car sping, will spira
coils, B, which hive bearing surfacery and given spaces beiween ite Which cllose and open, and by means of closing nud opening the spira coild are protected and the spring is graduated, substant
cribed in my specifcition, and for the purpose set forth.
40,453.-Shield for Ordnance.-Peter Andrew, Cincin nati, Ohio:
I claim the elliptic, funnel-shapted, protrecting shic
in the manner and for the purpuse bercinset furth.
40,454 Surar Mor the purpese beremsel rorth. 40,454.-Sugar Mcld Carriage.-Thaddens Beach, New York City

 E, fur imparung mothn theret,, when ald the said parts are con-
structed and arranged in the manner and for the purnose hcrein
(This incention relates to a new and usefut improvement in sugn mold carriages, such as are employed for conveying filled suga molds to the drying department in sugar retineries. The inventiun consistsin $a$ novel and improved meaus ior brasping or holding ops of the molds in the carriage, whereby the carriage-way can, wit he greatest facility, be adapted for holding different sized melds.
40,455.-Paddle Wheel.-A. T. Boon, Galesburg, III.: I claim the combination of the double-sided buckets, A A, with the
 hereir equivarit
Ialso claim


40,456..-Tile Machine.-John liraislin, gurlington, N. J.:
I claim, tirst, The reciprocatugs planker, M, since, Ni ind tirming


 pluuger, M, the whole belng arranged f,r fir juini action, substantially
as sei forth. Fourh. The opentig, $x$, at the rear of the plate, $P$, in comblnation
with the bar, Q, and biock, $y$, or other elluivalent. mivable corer for
the said openlug.
40,457.-Dish-washing Machine.-A. M. and J. I. D. Bris-
tol, Detroit, Mich.: We clalm, Dirst, the recip



 e, edges to operate as and for the purpose set fuith


I'This invention consists in the employment nod use of reciprocating brush plates and rotary brush disks, placed within suitable boxes, washing dishes, stuch as plates and similar llat dishes, with great rapidity and in a thorough and elllcient manner.]
40,4j8.-Cars for Petroleum.-Juhn Clark, Canandaigua,
N. Y.: N. Y.:

I claim the applicatiou of a tauk, D, under the platiorn,
railroud car, substantially as and fur the purpose specitied.
railroud car, substantially as and fur the purpose specitied.
|This invention consists in the application of a tank of sheet metat or other suitable material under the platiorm of an ofdinary railroad car, in such a manner that a large quantity of pattoleum can be car. ried inbulk, and at the same time the car can be used in its ordinary capactly as a package or dirt car. 1
40,459.-Boring Machine.-G. S. Corwin, Riverhead, N. Y.:
I claim Girst, The vertically ndjustiable frame,, , in in combination
with the bevel gear, $E$ F, and bore spindle, $D$, constructed and operathng as andifor the purpone specified.
secoud, The cumbination of the treadle, o, pawl, p, bent lever


40,460.-Pans for Evaporating Sugar, \&c.--C. B. Darrow, Orland, Ind.:
I claim a sugar pan provided with cavities, ce, at or under the alter-
nating ends of the partitions, a, substantially as shown and des-
cribed. cribed.
posite ard in the arrangement of cavities ou the op one end then at than, and under the several parutionsallernately at rising in then al he opposite end, fa ouch a mander lhat lhe ccum rising in one compartment or groove is not allowed to pass into the one end of the pan to the oler, and as the asme time the sediment one end of the pun to the other, and at the came time the sediment
forming at the hottom of the pameges between the compartments is

