

Issued from the United States Patent Onfe for tie wers ending november $30,1858$. [Reported aficeally for the Serentufic American.] Pirivular piting tal parituluro or tho mode of ap







 Hel



 [This is an improvement in what are known as the anti.-friction tackle blocks-those which are provided
witha bushing containing friction rollers. The invention consists in a novel way of securing the bushing in
the pulleg, so that it will be firmly secured thercin, efthe pulley, so that it will be firmly secured thercin, ef-
fectually prevented from'turning, and at the same fectually prevented from turning, and at the same
time haveno tenden: to weaken the pulley-an ob-








 the marking whee, when arranged at described weat
them marken, whereby the exat positions of the meas-
uriverecesses in the seed-deliverer are indicated to the













 sioied
[This invention was illustrated and described on page
96 , this Vol., Sor. ANr.]

















 ditain

 the rocker, in the manner subetantially as sapecified. ${ }^{\text {a }}$ The arrangement of this machine is very different
from other double thread or shuttle machines in use. The downward motion of the needle-to supply the thread for a stitch, the partial upward motion to bow or loop the thread, the second downward motion of the
needle to open the loop for the free passage of the shutthe through it, and the complete upward movement of the needle to form the stitch on the cloth, are effected shaft. The amount of thread supplied is controlled simply by an adjustable arm of the rocker. The tension
is regulated in the most perfect manner by an adjustable segment wheel, so arranged that the thread bears on a greater or less вurface, as che require or case may require. The fees being combined with the rocker arm, so that it is forced down rigidis upon the cloth at one stage of the operation, forced forward at another, and then released and thrown upward by a spring. We certainly regard this a mostexcenc maehne; and as as this will be evid
ter of the claims.]
IIARvestras-Nicholas Clute, of Dunnsville. N. Y. Y.

 deacribed, and release the grain and atraw, and led
fallinto the trough or box, unbstantially as specified.

 [This invention consists in a certain mode of applying fiap valves to operate in combination with slide
valves, wherebs the former are rendered capable of cutting oft steam from the slide valves suddenly, at such point in the stroke of the engine as may be determined by a governor, or other adjustable contrivance.]
Pours-ABahel Cooleg, of Springfield, Ill. I I dis-
claim suction chamber, Acylinder. B, and air cham.
ber, $\mathbf{C}$, as they do not difer mater use.
First, I I claim the parts, $\mathcal{E} G$ F $F$ a and $c$ c c, comporing
the pisto and its valves, when combined with the hol-
 D, for the purposes and in the manner described.
Hooss Corpling-James C. Cooke of Middletown, ing one-half of the coupling provided with a male, and
the other half female part, as I am aware that such is
not new.
 With the male parts, c.c.araranged and and made to operate
subatantially for the purposespecified. Arranazaznt of Cutrerb por Turning Hubs-
George Coper, of Berlin, Wis.
 ble cutters in combination with, any ordinary turning
lathe or rovovin centering shaft, substantially as and
for the purposes eet torth.
[This improvement is designed for use in connection with a centering lathe. The preparatory and finishing cutters stand opposite the space existing between the
two cone centers of the lathe, and are a ranged so that the preparatory cutters can first be brought into action to reduce the hub block to the form of a hub, and then
the second set of cutters, to finish or complete the hub. By this invention, a hub complete can be turned out by simply subjecting the block to the action of two sets of othercomes into operation.
machinefor the wheelwrigh.

 of any other rasteningd, by Insert ing iron joint pieces ot
such shape as to fit into elote in the shanks of two contiguous rail ends, and at the same time afiord a support
to the head it said rails, thereby the ridis are peran
nently kept in the same vertical and horizontal planes, nenty eppli.
and dre allo
as set iorth.





 parthe
port
s.




CThis invention consists in a certain mode of applying and arranging two disk valves and the connections on
the same with a foat ; and it further consista in a guard applied to protect this float from the action of the
steam.]
 relatively with the
purpose set forth.
In this machine there are twoim provements-onein the seed-distributing device, and the other in the machine, so thatthe shares may, when necessary, be raised tree from the ground. The invention is de
signed for planting seed in hills or drils, more espe cially for planting in hills and in check rows; and the improvement in the distributing device is intended to prevent its choking or clogging, and also the breaking
of the seed as the seed cells are drawn under with the of the seed as the seed cells are drawn under with the
cut-off-a contingency which frequently occurs with cut-oft-a contingency wh
the ordina y seed cut-off]
Blind Orgeatos-L. N. Fag and William Mason, of
Weat Warren, Mass: : The sirully flanched plate, F,
and seement warm
 G, will be tound described in Letters Patent granted to


 the of
vice whereby a window-blind, by simply turning a knob, may be opened, and also retained at any desired point. without raising the sash. The blind slats can
also be adjusted, or opened or closed, by turning the also be adjusted, or opened or closed,
same $k$ nob when the blind is closed.]
Hot Air Fubnacbs--Jnu. R Fergueson, of 13rooklyn,
N. Y. Disclaiming the devices used, s:parately con-Bidered- the combinition and arraugement of th:
various parts, as deacribed, for the purpose specified.

 Horliston, Mass.: I do not claim rimply making the
barrect separate from the main wheel, or any other gear
of the But "rrain of a watch wats coth is the sparation of
of the barrel and the main or other gear whecl of the
 termed a "reverere n
pose as explained.
 and blow cock in which there are vertical openings, as as
these have been used, and do not collect the sediment byes have beeen ured, and do not collect the sediment
edges. bullition throwing the same over horizonta
 in this instance no provision was made for a variation
in the change of water-level. and unlegt ane alternate
ed
edes and openings rise above the water, and are eo edge and ocnings rise above the water, and are eo
formed that scum ore
the ebullition cannot escape, the objecthrowno ver by be accomplished.
Iclaim the evesel, a, fitted with a blow-off pipe, in
combination with the rinks, e e or their equivalents,


Stwing Macuings-albert H. Hok, of New York
City: I claim the combination of the levers, m na tantially in the manner and for the purpose set forth.

 the ower end\& are opened, and we therefore
claim such device. claim, broadly. the levere, $m$, fo
Neither do retaining the seed sot that it may be dropped from the
lower ends of the tubes.
But

 neousl $Y$ by the ei
of the levers, $i$.
[This invention consists in a novel means employed Cor operating the seed-distributors, and in a peculiar
arrangement of the seed boxes and tubes, whereby the same, when necessary, may be readily raised and lially designed for planting corn or maize, mut mas be used for other seeds, ss they can be dropped in check rows, or planted closely in drille.

 the upper leaf of the hinge, which ig secured by the
brace and the pin securing the embrace of the brace
and nut.




 ind

 tion with the lever, O, as described, the whole being
arranged and operating substantially the manner set Puxps-A. L. Keeports and George Palmer, of Lit-
tlestown, Ya: Pestown, Wa, We claim the combination of the main
pump r, withe reerroir. a, and ascenion pipe b olastic sp ing valve, v, the whole arranged in elation
to to phe proportiong exising betwen the valves and
pipes, operating as described, and tor the purposes set
tor Cosn PLANrzss-David Ladd, of Dearborn, Mich.
do not claimas my invention any of the mentioned

 SEKDING MAOBLEES-Daniel Markham, Austin S.
Markham and David Eldred, of Monmouth, Ill: We onot claim, broadly and oeparately, the wheele,
provided with buckets, j , for distributing seed, for thes
 scatter the same, for such board or plate has also been
used, 8 allo has the perforated slide bar, $G$, which we
consequently disclaim.
 strips or or bottom, hhar, gubtant palaty, as shown and whereby
seep may be planted irom the same seed box, fither in rills, check rows, or broadcast, as may be desired.
In this seeding machine the seed distributing vices are arranged in one and the same hopper, and the defiecting plates. soed-conveying tubes and shares are
arranged so that the seed may be planted in check Prebervation or Flesil for Foon-Nathan
Mardh, of Cincinnati, Ohio $:$ Fam aware that the art
 aries and ver
R the fiesh
But $I$ am
ansmited in a current throuph the arteries, capil-
 Nor am I aware that refrigerant fluild have eve
been used or injected for the purbose of ahtractingthe
Rnimal heat ; nor am I fuwre that that object has eve
 nimale with saline or aromatic olutions per seiled
Iam also nware that animals have been killed
 a
parietiç of the chet, in puch manner as neceesarily to
wound important arterial branches, and divide the ex-
 But f am on aware that animals have ever been bled
or staughtcrod by cutting in the median 1 ine, or open
ing the chest, and then wounding the heart or its ves ine the chest, and then wounding the heart or its ves
sels.
Nor am I a arare that animals have ever been bled by Nor am aware that animals have ever been bled by
opening the abdomen. and tho incising the unacava
or aorta; cousfuenty $\mathbf{I}$ do not cluim bleeding the ani-
 Second I claime the lne liecting or transmitting of the
aline solutions at a temperature below or above the
 Hasces, as well nas the injection of phot peartions of the car
indicated, in the manner bete forth, with the solution Sorpw-Necr Bortus-John L. Mason, of New York
City: I claim a screw-neck or nozzle of a jar or bottle
 bottle or jar. in which the neck extends above the
screw thread, and the thread vaniahesinto the neck of
the bottle or jar, aubtantially as described. Gage Cock-Richard L. Milla, of Lancaster. Ohio
do not claim, broaldy the invention of the doubl
ralved stems, so arranked that when one valve is with Valved stems, so arranged that when one value io with
drawn from its seat. the other oh.lle be drawn into its
seat. and thus stop he egciape of steum, without pack nh, for 1 am a amare that buch devices are old
But I claim the arrangement and combination of the lining tube, C, and cap, E, containing the adjustable
seats, cg. Fithe double vave stem, D, as and for
the purposes shown and described [By a certain arra crewed stem, in combination with a female screw an peculiar way of arranging two conical suats within nd yet the escape of steam around the stem when th cock is open, is effectually prevented.]

 Vaive Gear Of Steam Enaines-Edward Moran. means of a valve puide, D, substantially as described,
he movements of which are re rulated by projecting In alos claine the decribed. reversing apparatus, as and tor th
purpose set forth.
 that give motion to the fuide, so as to bring the came
nto motion at the propr time to produce the desired
valve motion, ad specifed. Vatves of Steam Enarne-Alden R. Morrill, of
Northfiel, Vt. I am full aware of he inventions or
 Nor do 1 claim a pistou valve having two hendg.
Ninandrical valve caseg, each of of whicheret betwen two not only has passage leading from its outer end to the steam cylin-
der, but sin separate eduction passage, the ame being as What I claim is, my improved construction and a

 and open at both ends, as described, making it sppa
rate from the steam chet. and as as orest on the bot
tom of the hatter, and confining the therein by neens on
 Ido not claim the application of safety valves with
 ais to pass through the side valve.
But $I$ claim my improved arrangement of the saret




 na








 urposes 8 et forth.






CIn this invention the olide valve is operated by arring resting on the juural box of the axle, to which the eceentric plate or cam working in aid ring is attached, so that the motion of the slide valve is not
changed by the up-and-down motion of the axle. This changer by the up-and-down motion of the axile. This
eccentric ring is connected to a rocking piece with two
 mas be reversed by changing the position of the rod which connectid the valve with the locking piece from one tep to the other. The cut-off valve is allo oper tion with a slide that the point at which the combin cut off may be changed by raising or lowering the




 arranged ihat hoth induction and eduction valvee
communicate with the sanie port, substantially as de.

 hall be required to
notion of the engine.






 ivoted together and combined with the fence sections





 bight from the ground, and is so connected to the macine that the latter may be readily moved from plac oo place without operating the former.]


 pose as set forth and dearrive

Improved Weighing Scalen.
American weighing scales have obtained a world-wide reputation, and their manufacture has become a most extensive and important branch of business. A set of weighing scales in the Conservatory of Art in Paris, and held to be standard authority in that city, so celebrated for art and science, were made by an American mechanic. Such triumphs in the mechanical arts gratify an honest national pride, and stimulate us to notice and acknowledge every improvement relating to this and all kindred arts. We experienced much pleasure, during the present week, in visiting the warehouse of F. E. Howe, recently opened at No. 438 Broome st., near Broadway, this city, for the exhibition and sale of the paten scales of Strong\& Ross, which were illustrated and their principles fully described on page 369, vol. XI., Scientific American. Since the publication referred to, they have secured a deserved popularity, and within the past three months, no less than seven first class premiums have been awarded to them, at as many State Fairs. During repeated trial they have never failed of success, and in testing one designed for weighing 20 tuns, wo found that we could vibrate the balance leve at any point of the platform by the weight of a single ounce. One of 200 tans' capacity, on the Morris Canal at Washington, N. J., has weighed 248,000 tuns of boats this season, and has given great satisfaction. They are mad of all sizes, of various forms, and adapted for every purpose in weighing. The large plat form scales possess the important advantage of not requiring a deep pit, by dispensing with the underbracing levers, while they are very simple and durable in construction and arrangement. They are all manufactured at Brandon, Vt., in the large factory of J. Howe and from an inspection of the workmanship we infer that they are made of the best materials and by skillful mechanics.

## Seeing at Certain Distances.

The earth being globular, at a certain dis tance, even though our vision can reach much further, its form will prevent us from sein objects. It has been calculated that at six hundred yards an object one inch high canno be seen in a straight line; at nino handred yards, two inches; at fourteen hundred yards five inches ; at one mile, eight inches; three miles, six feet. In leveling, it is usual to al low the tenth of an inch in every two hundred yards-eight inches in a mile for convexity. Preservation of Stone.
A writer in the London Builder, while noticing the extraordinary preservation in which St. Paul's Cathedral in that city is informs the readers that the architect, Si Christopher Wren, exposed all the blocks to the action of the weather for some time pre vious to their being used. By this means only good stones were employed, and the edifice is sound and strong. We wonder how this plan would suit modern contractors and builders.

Coal Mines in Greece.
The French geologists, who wander ove the whole earth, picking up fossils and speci mens, on which to found new theories and fresh hypotheses, wherewith to astonish the world, have discovered coal in Greece, and a company is now working them. They are situated about a mile from Comus, and are expected to be very profitable.
What Next? -In France they have commenced making climneys for boiler-furnaces, houses, and steamboats, of papier-mache sat urated with bituminous matter, because, say the Journal de l'Eclairage au Gaz, they are superior to iron for strength, hardness, and difficulty of oxydation. This, it strikes us, is one of those steps forward which are made up of two backward.
Monement to A Geologist.-A Grecian Doric column and statue is about to be erected at Cromarty, Scotland, to the memory of that true geologist and brilliant writer, Hugh Miller.

