

















 79.513.-Straw Cutrir. -D. Sturgis, Byron, assignor to






䢒
 79,518.-Ha RVEBTER.-C. R. Tabor and J. O. Tabor, Salem,








 \%,
 git , mini-Clotries Dryer.-J. R. Watkins, Maine Prairie,

















 79, 533.-SPRERE ADD FkLY ConNertion, -Geo, Allen, Win.


$79,534 .-$-baby Jemper and Cradle.-George h. Mellen,




## REISSUES.

66,935.--Skate Fastener.--Dated July 23, 1867; reissue


 tre common sall (chlor ide of sodinm), and water, in part or whole, as and to
12,382 -BASE deecribed.


12,383.-Base Burning Stove.-dated February 13, 1855



 55,217.-CIGAR Machine.- Dated May 29, 1866; reissue 3.011.-George Moe bs, Detroit, Mich., assignee by mense asignments
G. Alibet
I cliaing int,
 4,941.-Churn.-Dated February 25, 1868; reissue 3.012.-

 66,202.-Co'cton Gin.-Dated June 25, 1867 ; reissue 3,013.-





 manner tor the parpose above described.
$9,653 .-$ CorDED ELASTIC FABRIC,-Dated April 5, 1853, ex
tended seven







 Also, the combination of the detacbable gate box, By with the month of
the wate wayof the. Fiter wneel, all sibstantially in the manner and for
the purpors nerein get forth.

 fulcrom on Wbich to support the ehade in an inclined position, constructed
and appled together, substantially as epecifled
$31,566 .-D R I E R$.-Dated February 26,1861 ; reissue 3,017 .


 $20,4,6$. WATER $W$ HEEL.- Dated June 1,1858 ; reissue 3,018











## DESIGNS.

3,072.-Soda Water Fountain.-Chas. W. Anderson, Cincinnati, Ohio. 3,074.-Show Case Frame.-F. A. Howell, New York city 3,075.-Screen.-Calxin.L. Hubbard, New Haven, Conn. assignor to "New Haven steam Heating Company," Haven, Conn. 3,077.-Bottle.--A. Legrand Aine, Fecamp, France.
3,078.-Badge.-Edward Moore, Portland, Me. 3,079.-Cook's Stove.--J. A. Price, Scranton P 3,080.-Doors of a Cook's Stove.--Chas. J. Woolson, Cleve1and, Obo.
3,081 .- Toy Gun.--Spencer H. Brown and Chas. H. Willets,
New York city. 3,082.-Scroll to be Applied to Envelopes.--Maro S. 3,083.--Trade Mark.--Spencer M. Clark, Washington, D. C.

3,084-MANDLE of Spoon or Fore.--Augustus Conradt,





## Extension notices.

Jobn J. Weeks, of Oyster Bay, N. Y., having petitioned for the extension of a patent granted to him the 26 th day of September. 1851 . Which patent was
sarrendered end application made for reissue in fourdivisions, tor an im. surrendered end application made for reissue in fourdivisions, tor an im-
provement in harvesters of grain and grass, for seven years from the expiraion of said patent. which takes place on tbe 26tb day of September, 1868, it is ordered that the said petition be heard at the Patent Oflice on Monday, the Joy day September next.
Joel F. Keeler, of Pittsbarg, Pa., having petitioned for the extonsion of a patent g ranted to him the 26th day of September, 1854, for an improvement
in platform scales, for seven years from the expiration of said patent, which platform scales, for seven years from the expiration of said patent, which
akes place on the 26 th day of September, 1868, it is ordered that the said peIttion be heard at the Patent Ofllceon Monday, the fith day ot September tition b
next.
$=-\ldots .$.

Inventions Patented in England by Americans. Compiled from the "Journalof the Commissioners ot Patenta." PROVIBIONAL PROTECTION FOR SIX ROUTES. 1,250- -Hzativg and Vfintilating apparatus.-Jobi Johnson, Saco, Me 1,723.-REmoving INR and Colors from Paper, eto.-Josedh A. Veazie
Boston, Mass. May 26,1868 .

 1,736.-Brebch-Loading Fire-arms and Cartriderg.-B. Burton, Brook-
yii, N. Y. May 26 , 1868 .
 Moy $1,760$. - 1868 . 1 . 1,853-Projectilimg For Rifled CANNon or Ordnanoe.-E.A. Dana
Brookline, Mass. June 5, 1868 .

## MANOFACTORING, MINING, AND RAILROAD ITEMS

The largest gold brick ever seen in Montana waslately on exhibition in a bank in Helena. Its weight was 1,08 ounces, and its value $\$ 31,050$
Tbe Superintendent of the Pennsylvanis railway, investigating the relative cost one bandred miles mode the mile, and the other level, and the demand for transportation on each mounts to $2,000,000$ of tons per annum, the difference in favor of the level road is $\$ 600,000$, or the interest on $\$ 10,000,000$.
At the steel works of John Brown \& Co., at Sheffeld, Eng., is a machine or nd actually does the work of cutting six steel ralls every honr. A feature dirable for the order and cleaniness of tbe same mill, is a cemetery for he rolls not in use, where they are all baried in special tombs provided for
heir reception under the iron floor of the mill, whence they are easily re moved by the bydraulic cranes.
Protessor Hitchcock, of amherst College, in a recent pablic lecture, said pply all the Onited States for ${ }^{2}$ Gardner's Mountain, New Hampshire, to appending for five miles, anc barino hundred years, the metalliferous vein The mineral wealth of Algiers is represented to be inexhanatible. At the ron mine Makta-el-Hadeel, near Bône, the mineral in some places crops up above the surface of the ground, and is worked in immense, crater-11ke cat
tings to a denth of one handred feet. About 200,000 tuns of ore, yielding 65 Wags to a depth of one handred feet. About 200,000 tuns of ore, yiel
The most expensive railway line in England, and probably the costliest Ver constructed, is that of the London and Southeastern companv's, from haring Cross to Sevenoaks. Upon tois road, less than lwenty $81 \times$ miles in formed by an engineer in Lond on that the Charing Crossconnectionin the city, in length about two and a half miles, cost $\$ 5,000$ per yard forward, in Iading stations and two bridges across the Thames.
The large alam works in the province of Brandenbarg, Prassia, bas been purchased by two enterprising New Englanders engaged in business in Ham.

Recent investigation has proved the fact that the lsland of Newfoundlan 1 possesses mineral treasures in large varietyand abundance. Since the dis. rom St. Jobnsacross the conntry to the western shores of the island. The projectors of the road-among whom is our energetic countryman, Cyrus W. ield-have secured a tract of land twenty miles in width, and extending
over the whole length of the contemplated roate, the land being wonderfully ricb in copper ore of the very best quality. The railroad will open up the enfre inland country.and render it accessible for mining operations.
At a recent conversazione of the London Institate of Civil Engineers, a cu mented upon. By the aid of machinery pig iron is ground to powder by a rapidly moving catter. The great amount of friction generated produces a
heat so intense that the iron ts set on flre, and after scintillating falls down as heat so intense that the iron is set on tre, and after scincillating falls down as redd ish-brown dust, the combustion having caused the ridance of tbe super
fluous carbon. The dust is collected, pat into a cracible, melted, and when cooled is found to formingots of steel of superior quality.

In boring a well to obtain water in the town of Dax, Departmentor Landes By the a bed of rock silu whscoved at ded one hundred feet by the use of wacer, tbrough the rock salt some fitty feet further, and the resalt ts a soline finuid containing nearly ninety-eight per cent of pure salt. A company has been ormed to work these remarkable deposits.

## NEW POBLICATIONS.

Engraved Portrait of General Grant
Many of our readers are doubtless famillarwith Marshalls celebrated en qualfied praise of critics both in Europeand ourown country. The same artist has produced, from his own oll painting, a very flne engraving of Gcn,
Grant, which has receivedthe indorsement of his family. As a superb work of artit equals that of Lincoln, and is wortby of the highest commendation It is pablished by Ticknor \& Fields, No. 63 Bleeckerstreet, New York, and is sold by subscription only. We are asked to state that agents are wanted

The Mechanic's tool Book. By W. B. Harrison. D. Van Nostrand, 192 Broadway, New York city.
The author and compler of this manualvery justlysays that "no two me-
chanics work alike," ${ }^{\text {nand }}$ it needs but little observation to verify its trath. In many shops, particularly the jobbing machine shop, a readiness to adapt with celerity the tools or appliances on hand, or to contrive plans for an ex-
igency, is a rare and valuable quality in workmen, and such men are easily found. To enable the apprentice to learn and thejourneyman tocom mand the use of such appliances is tbe intention of this volnme. As a prac, tical mechanic we tbink the writer has succ eeded in imparting information
valuable because given by a practical man, and useful becanse well arranged
and protusely illustratad.

