




 83,097.-Pocket Safe for Friction Matce Cord.-Wm.

 83,098.-Fsuit Pick Pr.- Jeremiah Schroy, Fortville, Ind.
 rowion with the pole, $A$, and conveyer, $F$, to operate substantially as
forth 73,099.-Beer Coolfr.- - Louis Schulze, Louisville, K







 83.100. - Soldering Vessel.-Conrad Seimel, G'np int.N.Y
 2d, th troug
pose set forth.
83,101,-Lawn Mower. -John Shaw, Brooklyn, N.Y. Pat
 83,102.-Bucki.E - Perry W. Smith, Abingdon, 11
 $83,103 .-M_{a c h i n e r y ~ f o r ~ P r i n t i n g ~ Y a r n .-E . ~ J . ~ S t e p h e n s ~}^{\text {and }}$,

 8ed.
83,104.- Gas Furnace for Heating Soldering Tools.

 en' 8 by the carved pipe
the purpose specifid.
83,105.-Corn Planter.-S. L. Sweeney, Morrison, Ill


 sm, sul,stantially as set forth.
83,106.-Sugar-júice Evaporator. - James Taylor, Can

 83,107.-Seam Joint for Cans, etc.-E. A. Thomas, Phila

 88,108.-Steam Generator.-J. L. Thomas, Alliance, Ohio

 $83,10 \mu$-Device for Stretching Telegraph Wires.-G.
 83,110.-Hay Rake and Loader.-J J. Thompson, Rich
 83,111.-Cultivator.-J. J. Thompson and V. F. Collier

 83,119.-Sash Lock.-E. H. Tobey, Bridgeport, Conn., as
 83,113.- Diapiragm Bellows for Dry Gas Meter.-A.

 53,114.-Caloric Engine.-H. D. Wallen, Jr., Fort Colum-


 83,1110 . - Pasaper Cutter and kuler.-S. W. Wilcox, Men
 or the purpose herein set forth
83,116.-Stop Motion and Indicator for Knitting Ma-


 E, and te cam giooved eylinder, C , applied to a knitting macbine, substan, 83,117.-Chain Pump Valve.-Orrin O. Witherell, LewisI claijm the plates, $A \cdot B$, having; the links, $D$ D, secured upon the elastic
 nut, G, between the enus of the, link upon the plate, B, as herein described
and'sown.
83,118.-Pipe Coupling.-William H. Yeaton, Philadel Ihad, Pa. The combination of the portions, A and B, of the conpling wilh
Ithe yoke, Dist, 'he wbole being constructed and arranged substantally as and


82.119.-MaNUFACTURE of Iron and Steel. - Richard I claim, 18 t , The process of fusing and reflning
Irond
2d , The converting of iron into carbonized steel
a; The

 83,120.-Table Cloth Protector.-Mrs. J. H. Mott, Wash I clumma table-protecting apron, formed with raised edges, a a, and attach
ng straps, co and e.the whol e constructed and arranged substantially as
described, tor the purnoses 83.121. - Prochiss of Roasting and Chloridizing Ore. Henry Tindall, Cbicago, R111.
1 claim the process of treating ores, substantially such as 18 above de
83.122.-Furnace for Roastivg and Celoridizing Ore.-



 sth The arra"Igement of the esole or hearth with reference to the chate,
suhth trally as soown and nescribea.
6th
 83,123-P. ston Red Packing.-Orrin Collier (assignor t




## REISSUES.

35 Dated Julv 22,1862 ; reissue 3,158.
 $67,35 \overline{0}$ - Machine for Grinding the Cutters of Mowing





65,963.-SLEF.PING CAR -Iohn Swan, Baltimore, Md. Da-




## EXTENSIONS.

mprovement in Spring Rollers for Window Curtains,

 Drsion For Clock Case Front.-Elias Ingraham, Bristol I Conim.-De thesingnor a cllock case, as bereinabove illustrated and set forth Calendar Clock.-Wm. H. Akins and Joseph B. Burritt,




 . G purposes descrined, that in, givine move
Safety Whasier for Securing Wheels to AxLes.- Wm
 MACHINE FOR WASHING PAPER STOCK-Horace W. Peaslee

 and rotated witbout a stauth ant arms, that the inilde and ends may be anob
structed for the passame of the slock; substantially as and for the purp:
deseribe








 and the air py sage an
as describen ine same
missior of air thto mission of air Into tre passaye, but or beepirg it trom passing under the doo
aide per the plste, c, while. me ledge is below the level of to top surface of
the plaie.





#### Abstract

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## NEW PUBLICATIONS.

A Mandal of Practical Assaying. By John Mitchell, F.C.S. Third Edıtion. Edited by Wm. (rookes, F.R.S. 1868.

We are indebted to the publishers for a copy of the above work, the merits of which have been thoroughis recognized by soientific men. The present letely ap to the requremens of modern assaving special attention having Leen paid to the Volumetric and Colorimetric Assase as well a to the blow. pipe assays. The portion of the work devote to the subject of oil and gas last furnaces is of great value. The wort has been carefully and ably edited. and is printed :n clear bold type. It is the best, in fact theonly com plet English work upon the subject. The old nomenclatare has been re-
tained, but as the work is written rather for pruct cal assayers than as a ext bonk, tis is harilly a defect. It would be diffleult find any fault with the book, still more so to suggest any improvement.


ATENTS





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with clearnes, the nature and operaluon the inloprovement.
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pater mer merical compounds, and useful mixtures of all kinds , are


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