## RECENTLY PATENTED INVENTIONS,

## Hardware.

LOCK.-A. N. Wickham, Lincoln, Neb. This lock may be placed in a door with a portion of the casing bearing the latch-bolt arm arranged uppermost. It may be inverted and placed in the door with that portion of the casing bear-
ing latch tumblers and locking tumbler arranged uppermost. So arranged these tumblers drag over the inner casing and fall into locking engagement with the casing of their own come inoperative. Means aid in holding the come inoperative. Means aid in holding the end of the latch bolt extends through the faceplate of the main casing.
SNAP-HOOK.-F. S. Bieber, Poughkeepsie,
N. Y. This hook may be termed a rein and trace hook, since it is particularly designed for use on the portions of the harness of horses
that draw fire engines or fire apparatus or that other heavy vehicles. The purpose of the in-
ventor is to provide a snap hook that will ventor is to provide a snap hook that will
quickly receive a ring or link, and from which the ring or link can be quickly and conve-

## Heating and Lighting.

COMBINATION BOILER AND FURNACE. N. Frost, Bloomington, Ill. This invention relates to heating apparatus having a boiler arranged within a furnace and both located within a warm air chamber, thus utilizing the gen-
erated heat for hot air heating and ventilating purposes as well as for direct or indirect steam heating purposes. The object is to utilize the heat generated by
heating attachment for grates.F. A. Delph, New Orleans, La. This attachment is for use with open grates, and consists
of one or more return flues or pipes detachably of one or more return fues or pipes detachably
connected with a front plate adapted to cover the space above the grate basket and projecting therefrom into the room where the grate
is located. The plate is hinged to the grate is located. The plate is hinged to the grate
frame so that it may be swung laterally t gether with the return pipe or flues, when desired to replenish the grate basket.

## Household Utilities.

SAD-iron heater.-N. A. Westerlund, Superior, Wis. The object of the improvement is to provide an arrangement whereby a number niently from place to place. More specifically, niently from place to place. More specifically,
the invention contemplates an arrangement the invention contemplates an arrangement
whereby the same handle may be used for movwhereby the same hande may be used for mov-
ing the heater or for applying the irons to the ironing board.
MOP-HEAD.-Esther M. Lefevre, New tive means for scrubbing floors and cleaning walls, especially cornices, moldings, and ledges of all kinds, where there are numerous crevices and cornices which are difficult to reach by mop heads hitherto devised. . It will be found to be of advantage in scrubbing stairways,
where it is necessary to mop about railings and where it is necessary to mop about railings and
in the corners impossible to be reached by the in the corners impos

## Machines and Mechanical Cevices.

 KINEMATOGRAPHIC APPARATUS.-R. T. Haines, Melbourne, Victoria, Australia. The invention relates to mechanism designed to pro-duce a more perfect reproduction of living pictures or animated scenes upon any desived
exhibiting surface by obviating the fluctuation exhibiting surface by obviating the fluctuation
of light, flickering and blurring and by miniof light, flickering and blurring and by mini-
mizing the vibration and unsteadiness, spots and other imperfections or irregularities, which render so unsatisfacte
mechanisms now in use.
NUMBERING APPARATUS.-O. G. Bartusch, New York, N. Y. The object here is
to provide an apparatus, more especially deto provide an apparatus, more especially de-
signed for use i.1 printing presses to consecusigned for use hil printing presses to consecu-
tively number the printed sheets, and arranged to permit the use of a prefix forming part of the actuating mechanism for the numbering wheels and interchangeable with a non-prefix
part automatically covered up during the paspart automatically covered up during the pas-
sage of the inking rollers to prevent inking of the non-prefix part without cutting the rollers or requiring the use of a frisket.
LIFTER ATTACHMENT FOR
LIFTER ATTACHMENT FOR TYPE-SETTING AND TYPE-CASTING MiACHINES.-E.
C. Lamps@N, Jefferson, Ohio. It is sought by C. LAMPSN, Jefferson, Ohio. It is sought by
this invention to enable an operator to raise this invention to enable an operator to raise
the assembler at will as many times and as often as he cares to do so, the ascent of the
assembler being always made with uniform speed and both the ascent and return of the assembler being positive, yet the movement re-
quiring principally no expenditure of energy, quiring principally no expenditure of energy, fected by the application of power.
loose-Leaf binder.-J. F. Gloe, Manning, Iowa. The improvement relates to that
form of binder in which two symmetrical form of binder in which two symmetrical
halves are made to clamp the edges of the halves are made to clamp the edges of the
loose leaves and have telescopic anchorage loose leaves and have telescopic anchorage
posts which protrude through slots in the posts which protrude through slots in the
leaves and also marginal clamping edges which leaves and also marginal clamping edges which
by suitable mechanism may be adjusted toward interposed leaves.

Rallways and Their Accessories. CAR-FENDER AND TRACK-ClEANER.--J,
Dobos, New York, N. Y. The provision made
in this invention is for a fender and cleane
for use on street cars, automobiles, and othe vehicles, and arranged to allow convenient and quick adjustment of the fender relative to the roadway or track rails, and to permit the throw the fender or cleaner into an active position or to move the fender into an inactive
locomotive-pilot.-B. t. hamilton Fort Smith, Ark. Switching engines ar provided on their forward ends with a draw nected with a car in front of the engine. with a stub pilot so as not to interfere with coupling the engine to a car on its forward end. No pilot used, the engine is not suited
for road service, as live stock when struck by the engine going at high speed are liable to be thrown under the train and cause serious accident. When a stub pilot is used the
draw beam projects so far beyond the face of the pilot that the stock when struck often
of the pilot to the under the beam and fall off th pilot to the track, frequently derailing the
train. This invention provides a pilot for use on an engine designed for switching on
road service. Mr. Hamilton has invented an other pilot, which is adapted to remove obstacles and live stock from the path of the train when used for road service, and to be adjusted relatively to the draw beam so as not to interfere with coupling of the cars to th
forward end of the engine when switching.

## Of General Interest.

MUSIC-holder.-J. B. Way and C. Fezler Patchogue, N. Y. One embodiment of this in means for holding the back sheets in open positton. A number of spring-pressed arms, each
having a device for removably attaching it to an intermediate sheet of music, are held against the tension of the springs before the sheets being operable to successively release the arms and detached sheets.
LEVELING-ROD-F. WULFF, Torreon, Coa huila, Mexico. This rod easily takes the read
ing on a horizontal line, through a level, $t$ ing on a horizontal line, through a level, t
the small fractional part of a dimension and accomplishes this directly without referring to the unit marks on the rod below or above
the reading and without undue straining of the eyes. The rod is covered with graduations on all sides, which provide sufficient space for marking the figures in large type, the gradua ations of each succeeding side differing by a fraction of a unit, which gives the graduations
CHIMNEY-COWL-E. A.
eb. In this improvement the ardion Monroe, Wind on the uppermost blades operates to draw and thus increases or improves the draft and clearance at the top of the chimney as desired The cover is formed from a flat plate of metal approximately square and bent to bring its the side wings. The wheel is mounted to turn loosely on its shaft, the latter being bushed to operate withc ut unnecessary noise. The vane
is preforably made of sheet metal.
SEPARATING-POT.-G. Nebel, Monterey,
Nuevo Leon, Mexico. This separating pot is Nuevo Leon, Mexico. This separating pot is
for use in smelting, to separate the matte for use in smelting, to separate the matte
from the slag, as well as from the crust formed by the cooling of the slag. The inventor reme dies many defects by providing a pot without
holes, and having a special shape by virtue of which the slag and matte as well as the crust are poured or taken out separately, and so rapidly that only a ver
Ellipsograph.-J. T. Kelley, West Rush, . Y. The invention relates to improvements in ellipsographs and more particularly to means whereby curves other than arcs of circles may be readily drawn. It is particularly designed set to draw an ellipse of any given major minor axis as readily as an ordinary compass an be set for drawing a circle of a given diam

PROSPECTING-TOOL-T. J•hnstóne, Mussegon, Mich. The tool is such as used by
miners in locating ore deposits. It is especially useful for gold miners in locating gold deposits in ancient river beds or streams. The inventor's object is to produce a tool readily earth, and which will afford means for quickly separating the solid portions of the earth from the water which is brought up with the
Dentimeter.-R. H. Macy, West Palmbeach, Fla. One purpose of the invention is
to provide an instrument especially adapted for releasing and holding the ends of a wire when measuring a tooth or a root in crown bridge work. Another is to provide an in
strument of but two members, and to so con struct and combine said members that the ends of a loop of wire may be quickly and con
veniently inserted into the instrument and locked thereto, and as speedily released therefrom.
Note.-Copies of any of these patents will be furnished by Munn \& Co. for ten cents each.
Please state the name of the patentee, title of Please state the name of the patentee,
the invention, and date of this paper.

## NEW BOOKS, ETC.

Rustic Carpentry. Edited by Paul N. Hasluck. With numerous engravings and diagrams. Philadelphia: David Price, 50 cents.
"Rustic Carpentry" is a form of amusement that can readily be indulged in by all, what
ever their mechanical skill may be. This little ever their mechanical skill may be. This little
work contains directions for making a number of useful and ornamental objects in rustic
style. of use
style.
Elect
Electrical Ignition for Motor Vehicles. By W. Hibbert. New York: The
Macmillan Company. 16mo.; cloth; 128 pages. Price, 50 cents.
The ignition of gasoline engines has become
subject of such general importance - that a subject of such general importance that
every one connected with their operation must have some knowledge of electricity. This book deals with all phases of the sobject, including batteries, both primary and storage, and mag
netos. The appendix contains the principles netos. The appendix contains the principles
upon which battery action is founded, as well as the fundamental laws of electricity.
Motor Bicycle Building. Edited by Paul ings and diagrams. Philadelphia: David McKay. 16mo.; cloth; 160 pages. Price, 50 cents.
Although motor cycles may seem at first yet when resolved into their component parts they are reasonably simple. There is no reason
why anyone of ordinary mechanical ability should not build for himself a motor cycle, if he has at his disposal the proper directions
and the correct designs. This handbook conand the correct designs. This handbook con-
tains, in comprehensible form, a number of rticles contributed by a cycle and motor, maker and expert, Mr. W. Travers, to "Work,"
weekly journal. It is complete in all its details and contains a chapter on Ignition writer on practical electrical subjects.
 Practical Guide to the Art of Brewclusions of Modern Research Which Bear Upon the Practice of Brewing.
By H. E. Wright. Third edition, By H. E. Wright. Third edition,
thoroughly
revised and enlarged. London: Crosby Lockwood \& Son. pany. 8vo.; cloth; 562 pages. Price, $\$ 5$

Brewing is an art in which the final prodmany of which have but recently been disovered, while others are so obscure that their very existence can only be guessed at. The in himself, besides a knowledge of the raw go to make up the chemist and the biologist. Naturally, a textbook on such a subject must cover a field so wide that to merely give a
hint of its contents would be nearly impossible. One can form a slight idea of its scription of raw materials and their prepara tion, the headings, "Water for Brewing," "The Single Cell," and "The Brewery and Plant," are included in this excellent work, as well as a number of
The Humanizing of the Brute. Or the
Essential Difference Between the Hu man and Animal Soul Proved from
Their Specific Activities. By H. Muckerman, S.J. St. Louis: B. Her $\begin{array}{ll}\text { der. } 12 \mathrm{mo.} ; & \text { cloth; } 114 \\ \text { plates. } & \text { Price, } 75 \text { cents. }\end{array}$
If the thought-processes of the human mind are difficult to trace, how much harder must
it be to follow the impulses that produce the activity of the lower forms of life. The most common method of investigating these impulses observation of various actions, and the supply ing, from our own experience, of the mental attitude that prompted them; since the observer
projects himself into his interpretation. The author has avoided this error in his work, which. consists of a collection of observations discussed with a view to proving that man
owes his reasoning powers to the possession owes his reasoning powers to the possession
of a "soul"; a something which he alone has. To us it seems, though, that the treatise proves correspondingly low development and memories correspondingly short, reducing the results of experience to a negligible quantity, rather
than that there is a sharp dividing line be ween mankind and the rest of the creation. Problems of the Panama Canaĭ. Inclúding Climatology of the Isthmus, Phy sics and, Hydraulics of the River
Chagres, Cut at the Continental Divide, and Discussion of Plans for the to Date. By Brigadier-General Henry The Macmillan Retired. Ne York The Macmillan Company.
Although our nation is engaged in the completion of one of the greatest engineering pro
jects that has ever been attempted, there is little literature on the subject that tells of
the work in a complete and readable manner. the work in a complete and readable manner.
"The Panama Canal" is a name that has been
frequently dinned in our ears of late, yet few of us know, even in a general way, the enmounted. Brigadier-General Henry S. Abbot who was for seven years connected with th work in question, has written of the problem of the canal in a manner that deserves the highest commendation. His book is a minute and painstaking description of every detail of in every labartment markably is the subject matter composed that the interest to the casual reader is not stroyed. The engineer in search of exact in formation, and the layman wishing for genera information will both find it equally interest ing.
The Barton First Aid Text Book. A Manual for the Student in First Aid
By H. H. Hartung, M.D. Arranged and Illustrated by Roscoe G. Wells Second edition, revised and enlarged Boston: The National First Aid As sociation of America. 12 mo .; cloth
134 pages. Price $\$ 1$. 134 pages. Price, $\$ 1$
The subject of "First Aid to the Injured" should be placed in such forms as to be when his knowledge of rough-and-ready surgery may save a life. "The Barton First Aid Text Book" begins with a short description of th anatomy of the human body; it then deals with the circulation and respiration. The rest of the book is taken up with valuable informa tion on bandaging, treatment of patients for poisoning, what to do in case of shock, and Annals of the Astronomical Orserva tory of Harvard College. Vol. LV Part I. Second Catalogue of Variable Stars. By Annie J. Cannon. Unde Cambridge, Mass.: Published by the Observatory.

## INDEX OF INVENTIONS <br> For which Letters Patent of the United States were Issued <br> for the Week Ending August 13, 1907,

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