Hammer the Hammer Accidental Discharge Impossible

Every owner of an Iver Johnson has a double feeling of safety—safety as to protection of life and property, and abso-lute safety as to accidental discharge; for there is but one way to discharge the

IVER JOHNSON SAFETY REVOLVER

and that is to pull the trigger. In addition to the safety features of the Iver Johnson is the knowledge of absolute reliability and accuracy and dependable quality.

Iver Johnson Safety **Hammer Revolver**

3-inch barrel, nickel-plated finish, 22 rim fire cartridge, 32-38 \$5.50 center fire cartridge

Iver Johnson Safety Hammerless Revolver 3-in, bbl., nickel-plated fin-isi., 32-38 center \$6.50 fire cartridge - \$6.50

Sold by Hardware and Sporting Goods dealers everywhere, or will be sent prepaid on receipt of price if your deal-



Owi's Head 1rådemark on the grip

"Shots" full of firearm lore; gives important facts every owner of firearms should know; goes into details and illustrates by sectional views the peculiar construction of the Iver Johnson. Iver Johnson's Arms & Cycle Works IVCI JOHNSON'S Arms & Cycle Works

170 Giver Street, Fitchburg, Mass, &
New Yerk-98 Chambers St. Pacific Coast—
P. B. Beksart Co., Alameda, Cal. Europe—
Pickhuben 4, Hamburg, Germany.
Iver Johnson Bloyeles, Truss Frame, and Single
Barrel Shotgans

for Our

Booklet,



Racycle Reasoning

THE Peer of all Bicycles. One turn of the pedal takes you 21 feet—5 feet further than any ordinary Bicycle. The secret of increased pedal power in the



lies in its perfectly belanced crank hanger. Runs easier, with less strain on the chain and with less effort than any other Bicycle. A check for 850 or a Racycle is YOURS if you can disprove the figures in GRAND RIZE of the pamphlet, 'The Three Reasons' which show that there is 27.96 LESS of LESS of LESS pressure on Racycle bearings than on any ordinary Bicycle.

[Ray Bicycle.]

We'll send you "THE THREE REASONS" and our 1907 Catalogus for 20 stamp-FREE, if you meant the this paper. Secure 19 sa ha agent and you'll got your Racycle cheap. THE MIAMI CYCLE & MFG. CO Kiddletown, Chie, U.S.A.



Anyonesending a sketch and description pay nickly ascertain our opinion free whether an invention is probably patentable. Communications strictly confidential. HANDBOOK on Patents sent free. Oldest agency for securing patents. Patents taken through Munn & Co. receive special notice, without charge, in the

illustrated weekly. Largest cir-y scientific journal. Terms, \$3 a nths, \$1. Sold by all newsdealers. MUNN & CO. 361 Broadway, New YORK Branch Office. 626 F St., Washington, D. C.

drew Pharmaceutical Co.
Remedy for dandruff, Maffi Barber Supply
Co.
Remedy for dietetic purposes, internal, Actien-Gesellschaft fuer Anilin-Fabrikation
Remedy for diseases of the kidneys, stomach,
liver, and blood, M. C. Bostwick 60,827
Remedy for piles, J. Lataille 60,852
Roach, water bug, rat, and mice destroyer,
O. II. Jadwin 60,754
Roofing, ready tar and felt, Barrett Manufacturing Co.
Rubber, rubber valves, and jar rings, sheet,
Mercer Rubber Co. 60,772
Sedative and laxative powders, J. R. Halloran 60,772
Sedatives, Actien-Gesellschaft fuer Anilin-Fabrikation 60,785
Sewing machines and attachments. New Home Sewing Machine Co. 60,723 to 60,846
Skins, chrome and bark tanned calf, colt, 830,846
Skins, chrome and bark tanned calf, colt, 830,846
Skins, mat kid, Beckwith Leather Co. 60,749
Skirts, maternity, Beyer & Williams Co. 60,750
Soaps and soap powders, Colgate & Co. 60,855
Soaps and soap powders, Colgate & Co. 60,857
Spavin cure, Troy Chemical Co. 60,802
Spectacles and eyeglasses, glazed, Southern Optical Manufacturing Co. 60,802
Sporting goods, certain, Draper and Maynard Co. 60,802
Sporting goods, certain, Draper and Maynard Co. 60,802
Stoel tool N K. Peace 60,6764
Stoel tool N K. Peace 60,6764

Sporting goods, certain, Draper and Maynard Co. 60,676
Starch, laundry, Challenge Starch Co. 60,764
Steel, tool, N. K. Peace 60,797
Stove fuel economizers, gas, Commercial Manufacturing Co. 60,675
Teas, E. B. Millar & Co. 60,677
Tin and terne plate, N. & G. Taylor Co. 60,736
Tobacco, cigars, and cigarettes, smoking, G. H. G. Wing 60,761
Toilet and medicinal preparations, certain, J. Freiffer 60,847
Tollet and medicinal preparations, certain,

G. H. G. Wing
Toilet and medicinal preparations, certain,
J. Pfeiffer
Toilet and medicinal preparations, certain,
Sherer-Gillett Co.
Tools, certain hand, S. C. Morrill
Tools, certain hand, S. C. Morrill
Go, 722
Turpentine, Brazilian Turpentine Co.
Go, 644
Twine, Morley Twine and Mchy. Co.
Vanilla and lemon extracts, evaporated apples, and jelles, H. A. Johnson & Co.
Vegetable materials, certain, G. H. Leonard
& Co.
Wagon boxes, hay and stock tacks, Tecumseh
Rack & Manufacturing Co.
Watches, B. Allen & Co.
Go, 821
Whisky, M. Letzelter
Go, 763
Whisky, T. B. Kane
Go, 764
Whisky, T. B. Kane
Go, 769
Whisky, L. Hartman Co.
Go, 769
Whisky, L. Hartman Co.
Go, 769
Whisky, L. Schneider
Whisky, Casey Bros.
Go, 811
Whisky, Kamp Distilling Co.
Go, 829
Whisky, H. & H. W. Catherwood
Go, 820
Whisky, H. & H. W. Catherwood
Go, 830
Whisky, H. & H. W. Catherwood
Go, 830
Whisky, H. & H. W. Catherwood
Go, 850

LABELS.

"Admiral," for beer, Gotham Lithographic
Co. 13.371
"Alvaro," for cigars, L. W. Keyer 13.367
"Enterprise," for cigars, D. J. Borun. 13.366
"Judge Quality," for cigars, P. C. Wiggenborn 13.368 horn 12,368

"Lipton's Gossip Blend Kaffee-Klatsch Coffee," for coffee, T. J. Lipton 13,370

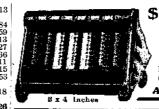
"Sagamore Spring," for whisky, S. Seblinger Sons & Co. 13,369

"Slick stuff," for lotions, Tryon Chemical 13,372 Co. "Superior Flower Seeds," for flower seeds, Mandeville & King Co. 13,374
"The Berkshire Shoe," for shoes for men, women, boys, and girls. E. D. Pritchard 13,373

PRINTS.

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 10 cents, provided the name and number of the patent desired and the date be given. Address Munn. & Co., 361 Broadway, New York.

Canadian patents may now be obtained by the inventors for any of the invent



" Adding Machine Free 10-Day Trial. We Pay Fy. I Free 10-Day Trial. We Pay Ex-

that clears the dials to zero instantly. A High-Grade Mechanical Production. Does the work of high-priced machines. Handiest thing an engineer can own. Great for outdoor work. Carried in your pocket. Guaranteed for **two** years. Catalog Free. Automatic Adding Machine Co., 340 Broadway, N. Y. City

THE "BEST" LIGHT is a portable 100 candle power light costing only two cents per week. Makes and burns its own gas. Brighter than electricity or acetylene and cheaper than kerosene. No Brt. No Grease. No Odor. Over 100 styles. Lighted instantly with a match. Every lamp warranted. Agents Wanted Everywhere. THE "BEST" LICHT CO.
S7 E. 5th St., Canton, O.
Cwaers of Original Patents.

Concrete Blocks

WE HAVE a very Beautiful Album containing over Sixty views of Houses, Churches, Factories, Plants, etc., taken from different parts of the country. These are printed on heavy enameled paper with original halftones, and these halftones are made from original photographs—not wash drawings these halftones are made from original photographs—not wash drawings—gxiz inches. If unsatisfactory, money promptly refunded. Price One Dollar, Write for Clachine Catalogue—Free,

Harmon S. Palmer Company 1450 Girard Street, Washington, D.C.

CONCRETE(hollow) BLOCK



machine, cheapest, best; making three hundred water-proof building ABEL MACHINE CO., St. Louis

DURYEA AUTOS



Are as simple to hanas speedy as a locomotive. A lady's carriage and a gentleman's runabout in

. 60,785 DURYEA POWER CO., Aeyrud Street, Reading, Pa.

DRILLING

Over 70 sizes and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or norse powers. Strong, simple and durable. Any mechanic can operate them easily. Send for catalog.

WILLIAMS BROS., Ithaca, N. Y.

HARVARD UNIVERSITY

The Graduate School of Applied Science and
The Lawrence Scientific School
Offer graduate and undergraduate converses in Civil. Mechanical, Electrical. Mining and Metallurcical Engineering, Architecture, Landscape Architecture, Forestry, Physics, Chemistry, Biology, and Geology.
For further information, address W. C. SABINE, 14 University Hall, Cambridge, Mass.

WRITE FOR ESTIMATE ON ANY ARTICLE
YOU WANT MANUFACTURED
STAMPINGS, MODELS, EXPER. WORK
WRITE FOR FREE BOOKLET
THE CLOBE MACHINE & STAMPING CO.
970 Hamilton St., Clevelarid, O.

and Bottlers' Machinery. THE VILTER MFG. CO. 898 Clinton St., Milwaukee, Wis.

MODELS & EXPERIMENTAL WORK.
Inventions developed. Special Machinery.
E. V. BAILLARD. 24 Frankfort Street. New York.

RUBBER Expert Manufacturers Fine Jobbing Work PARKER, STEARNS & CO., 228-229 South Street. New York

MODELS | INVENTIONS PERFECTED UNION MODEL WORKS GEARS | 193 SO CLARKS | CHICAGO.



Print Your Circulars, books, newspaper, Press \$5. Large, size \$18. Money saver, maker. An Money saver, maker. The PRESS Co., Meriden, Comm.



MODELS & EXPERIMENTAL MACHINERY.
Gears. Dies, Tools. Novelties manufactured. Fine, Accurate Work a Specialty. M. P. Schell,
1759 Union Street. San Francisco.



Removed to 182 Milk Street.

BOYS HOW WOULD YOU LIKE A Model Electric Car Send for Bulletin D
EMPIRE ELECTRIC WORKS, - Bridgeport, Ct.

Home-Made **Experimental Apparatus**

In addition to the following articles, the Scientific American Supplement has published innumerable papers of immense practical value, of which over 17,000 are listed in a carefully prepared catalogue, which will be sent free of charge to any address. Copies of the Scientific

charge to any address. Copies of the Scientific American Supplement cost 10 cents each. If there is any scientific, mechanical, or engineering subject on which special information is desired, some papers will be found in this catalogue, in which it is fully discussed by competent authority.

A few of the many valuable articles on the making of experimental apparatus at home are given in the following list:

ELECTRIC LIGHTING FOR AMATEURS, The article tells how a small and simple ex-perimental installation can be set up at home. Scientific American Supplement 1551.

Scientific American Supplement 1551.

AN ELECTRIC CHIME AND HOW IT MAY BE CONSTRUCTED AT HOME, is described in Scientific American Supplement 1566.

THE CONSTRUCTION OF AN ELECTRIC THERMOSTAT is explained in Scientific American Supplement 1566.

HOW TO MAKE A 100-MILE WIRELESS TELEGRAPH OUTFIT is told by A. Frederick Collins in Scientific American Supplement 1605.

A SUMPLE TRANSFORMER FOR AMA

A SIMPLE TRANSFORMER FOR AMA-TEUR'S USE is so plainly described in Scien-tific American Supplement 1572 that anyone can

make it. make it.

A ½-H.-P. ALTERNATING CURRENT DYNAMO. Scientific American Supplement 1558.

THE CONSTRUCTION OF A SIMPLE PHOTOGRAPHIC AND MICRO-PHOTOGRAPHIC
APPARATUS is simply explained in Scientific
American Supplement 1574.

A SIMPLE CAMERA-SHUTTER MADE OUT OF A PASTEBOARD BOX, PINS, AND A RUBBER BAND is the subject of an article in Scientific American Supplement 1578.

HOW TO MAKE AN AEROPLANE OR GLID-ING MACHINE is explained in Scientific Ameri-can Supplement 1582, with working drawings.

can Supplement 1582, with working drawings.

EXPERIMENTS WITH A LAMP CHIMNEY.
In this article it is shown how a lamp chimney may serve to indicate the pressure in the interior of a liquid; to explain the meaning of capillary elevation and depression; to serve as a hydraulic tournique, an aspirator, and intermittent siphon; to demonstrate the ascent of liquids in exhaustive tubes; to illustrate the phenomena of the bursting bladder and of the expansive force of gases. Scientific American Supplement 1583.

HOW A TANGENT GALVANOMETER CAN BE USED FOR MAKING ELECTRICAL MEAS-UREMENTS is described in Scientific American Supplement 1584.

THE CONSTRUCTION OF AN INDEPENDENT INTERRUPTER. Clear diagrams giving actual dimensions are published. Scientific American Supplement 1615.

AMETICAN Supplement 1615.

AN EASILY MADE HIGH FREQUENCY APPARATUS WHICH CAN BE USED TO OBTAIN EITHER D'ARSONVAL OR OUDIN CURRENTS is described in Scientific American Supplement 1618. A plunge battery of six cells, a two-inch spark induction coil, a pair of one-pint Leyden jars, and an inductance coil, and all the apparatus required, most of which can be made at home.

made at home.

SIMPLE WIRELESS TELEGRAPH SYSTEMS are described in Scientific American Supplements 1363 and 1381.

THE LOCATION AND ERECTION OF A 100-MILE WIRELESS TELEGRAPH STATION is clearly explained, with the help of diagrams, in Scientific American Supplement 1622.

THE INSTALLATION AND ADJUSTMENT

THE INSTALLATION AND ADJUSTMENT OF A 100-MILE WIRELESS TELEGRAPH OUT-FIT, illustrated with diagrams, Scientific American Supplement 1623. THE MAKING AND THE USING OF A WIRELESS TELEGRAPH TUNING DEVICE, illustrated with diagrams, Scientific American Supplement 1624.

HOW TO MAKE A MAGIC LANTERN, Scientific American Supplement 1546.
THE CONSTRUCTION OF AN EDDY KITE, Scientific American Supplement 1555.

THE DEMAGNETIZATION OF A WATCH is thoroughly described in Scientific American Supplement 1561.

HOW A CALORIC OR HOT AIR ENGINE CAN BE MADE AT HOME is well explained, with the help of illustrations, in Scientific American Supplement 1573.

American Supplement 1873.

THE MAKING OF A RHEOSTAT is outlined in Scientific American Supplement 1894.

Good articles on SMALL WATER MOTORS are contained in Scientific American Supplement 1494, 1049, and 1406.

HOW AN ELECTRIC OVEN CAN BE MADE is explained in Scientific American Supplement 1472.

THE BUILDING OF A STORAGE BATTERY is described in Scientific American Supplement 1433.

A SEWING-MACHINE MOTOR OF SIMPLE

plement 1210.

A WHEATSTONE BRIDGE, Scientific American Supplement 1595. Good articles on INDUCTION COILS are contained in Scientific American Supplements 1514, 1522, and 1527. Full details are given so that the coils can readily be made by anyonc.

HOW TO MAKE A TELEPHONE is described in Scientific American Supplement 966.

A MODEL STEAM ENGINE is thoroughly described in Scientific American Supplement, 1527.

HOW TO MAKE A THERMOSTAT is explained in Scientific American Supplements 1561, 1563, and 1566.

ANEROID BAROMETERS, Scientific American Supplements 1500 and 1554.

WATER BATH, Scientific American Supple-

ment 1464.

A CHEAP LATHE UPON WHICH MUCH VALUABLE WORK CAN BE DONE forms the subject of an article contained in Scientific American Supplement 1562. Each number of the Scientific American Sun-

plement costs 10 cents by mail.

Order from your newsdealer or from MUNN & CO.. - 361 Broadway, New York