CAPT. CODY'S BRITISH ARMY AERO-PLANE.

(Concluded from page 198.) two-bladed propellers in opposite directions by means of sprockets and chain. These propellers, as noted in our former article, have blades which taper toward the tips, the widest part of the blade being at the hub. Another interesting point about these blades (which are made of aluminium) is that the arms which carry them are fastened to the rear or pressure side of the blades. These arms permit the wearer to conveniently slide the are inclosed by a false face, in order to necktie in the collar to the desired position, the avoid sharp angles, but there is a high necktie not coming in contact with the rear ridge down the face of the blade, which is so great that the blade has in reality a triple curved face. From the cutting t_0 draw the collar tight in front by the necktie, edge to the center the camber increases causing the collar to appear with a lock front the pitch; then comes the reversal of the and keeping the top edges close together. curve, where the false face rounds the arm: and finally a renewal of the sharp camber, where the false face runs off into the trailing edge. The propellers are of the inventor is to provide a two-part coversaid to give a thrust of over 20 pounds $| \inf made of rubber, and provided with means$ to the horse-power.

The weight of the Cody biplane complete with the aviator is about 2,000 submerged under the surface of water. pounds. Despite the fact that it is such a large machine, it has been designed M. M. KAHN, Louisville, Ky. In operation, the with a view to ready portability. The weighted arm normally rests upon the hook or main planes each divide into three sec- weight. When, however, the telephone is in tions, consisting of a central portion 20 feet in length, and two end portions each of the set screw. After the telephone has been of 16 feet in length. The poles which support the rear rudder fold back against the planes, and the front rudder bamboos can be readily dismounted. The chassis also comes apart, and thus the whole machine can be easily and quickly dis- particularly tomatoes, and especially in southern mounted for transport. Although no test latitudes, great care is necessary in controlling has been made of its speed, this machine access of the sun's rays to the plants so as to graduate their effect to a certain non-injurious because of its powerful motor and efficient propellers, and, especially, because tection as the others, but being open, it allows Capt. Cody has attempted to reduce all free access for setting the plants and for weedhead resistance to a minimum, is undoubtedly a very fast one. It is prob- Cal. An object here is to provide a device in able that it will compete with the which the plow can be raised or lowered and Bleriot and Antoinette monoplanes locked in either position so that when the which are to race in England for a \$25,- digger is being used and the plow is locked in 000 purse next month.

we are indebted to the English weekly Flight.

Aviation Abroad.

Italy, was by no means as successful as wardly-inclined elevator. the first event at Rheims. The field was very rough, which made landing without which has occurred with a Wright aeroagain came to grief when he took Lefebvre's place at Brescia on September 8th, the first day of the meeting. Just after starting the aeroplane tipped so badly that one runner struck the ground and was demolished. M. Bleriot struck a tree and broke his propeller.

from one to two miles in circumference, boiler from the water column by excess air sity without the driver leaving his position in landing in the water successfully upon the boiler pressure is under complete control. floats fitted to the aeroplane. This is the first time a motor-driven aeroplane has delphia, Pa. A spark coil and battery cells are been fitted with floats and made to alight disposed in a casing, to which is attached a without damage upon water.

RECENTLY PATENTED INVENTIONS. Pertaining to Apparel.

SHIRT-COLLAR.-J. DORF, New York, N. Y. The collar is of the turn-down type, arranged to collar button but passing over a flap overlying the collar button and forming an integral part of the turn-down portion; permitting the wearer

Electrical Devices.

BATTERY-COVERING.-G. E. ANDREWS. for rendering a battery cell so completely watertight that the cell may be effectively employed where moisture is excessive, or even be totally

SWITCH-HOOK-CONTROLLING DEVICE. use, the arm is thrown backwardly into position, and may be secured in this position by means used, the arm is again turned forwardly into engagement with the hook.

Of Interest to Farmers,

PLANT-PROTECTOR.-E. R. DRAKE, De Land, Fla. In growing some vegetables, and

its lowered position, it cannot be lifted there-For the details and drawings of the whole frame of the machine together with the Cody biplane published in this article, wheels and the weight of the driver.

THRESHING-MACHINE. - T. S. HAYNES, Bay City, Texas. The invention has in view a rigid frame arranged at one side of the harvester and adjustable to different elevations above the ground, the frame carrying the har-The second foreign aviation meeting, vesting mechanism and braced intermediate its which was held last week at Brescia, length by the frame of a downwardly and out-

Of General Interest.

CARD-INDEX CASE .--- E. A. YUNGEL, New breakage difficult, and in addition to this York, N. Y. In this index case it will be imthe weather was not always propitious. possible to place a card out of its correct posi-M. Lefebvre, the daring French aviator tion, and the invention may be broadly defined with internal combustion engines who piloted a Wright biplane at the bottom thereof having card-engaging memas consisting of a card-holding receptacle, with Rheims, was killed at Juvissy on Septem- bers located in relatively different positions for ber 7th when his machine plunged to the each card or set of cards the case is to contain ground. This is the second fatal accident and without interruption between adjacent members.

plane. Lieut. Calderara, of the Italian Pa. This improvement has reference to eye EYE-SHADE .-- G. E. HENRY, Philadelphia, army, who also had a bad fall in his shades of the kind mounted upon spectacles, the Wright machine a couple of months ago, more particular purpose being to support the shade upon the end portions of the spectacles, and also to produce certain changes in construction of the shade and its support, thereby increasing the general efficiency of the device.

Hardware,

SELF-HEATING SOLDERING-IRON. -– A. HUSSON, Oshkosh, Wis. The object of the in-Anzani's propeller also broke while he effectively to produce a thorough vaporization was attempting to make a test flight. 'of the liquid as it is admitted to the burner. Both the latter accidents were attributed | The invention relates especially to the types of irons which are heated by liquid fuel.

pressure in the water column over and above

GAS-LIGHTER .- W. D. C. WRIGHT, Philahollow standard, at the top of which there is a tain an additional supply of air in a carbureter stationary electrode and also a spring electrode, which is automatically operated by the vacuum the latter being attached to an electrical conductive rod held in bearings in the hollow stem. The casing is of conductive metal and the rod is in electrical communication with the casing. Means provide for completing the circuits.

Household Utilities.

LIQUID - STRAINER. - M. ARRUEBARRENA, Cienfuegos, Cuba. The principal object the patent has in view, is to provide a continuously acting filter for sugar syrup, which may be operated with the minimum of power and readily cleaned. Throughout the whole of the construction, the material used is perforated, and therefore filtration is not arrested at any point.

Machines and Mechanical Devices.

CLUTCH .- J. SCHNEIDER, Ann Arbor, Mich. In the present patent the invention relates to clutches, and it has for one of its objects the provision of one which will permit of the ready engagement of the drive and driven shafts, with automatic means which will more securely connect the two shafts should there be any slip from the wearing of the parts after the clutch has been thrown into operative position.

CARD-EXHIBITING DEVICE. — A. J. THOMAS, Roubaix, S. D. Means are here pro-J. vided for conspicuously displaying illustrated postal cards, or cards whereon fancy buttons or like merchandise are placed. The invention affords an apparatus of great capacity and extremely well adapted for the exhibition of cards in large number and of different design, that are brought into view by manual operation of the machine.

POT-FEEDER FOR TYPE-CASTING MA-CHINES.-L. A. SENGELE, Victoria, Texas. In this instance the invention relates to typesetting and type-casting machines, and more particularly to such machines as are employed to cast slugs provided with impression characters, each slug representing the line, or its equivalent, to be printed.

CENTRIFUGAL BOLTING-MACHINE. - G. Cusson, Chateauroux, Indre, France. The invention has reference to an apparatus suitable for use in a flour mill as a flour extractor for the different grindings of wheat, as an extractor of semolina, oatmeal, or groats, as a meal-sifter, and capable also of being used in various industries.

Prime Movers and Their Accessories.

BOILER-FLUE CLEANER.-J. WIECHMANN. Albany, N. Y. In this case the object of the inventor is to provide a new and improved boiler flue cleaner, arranged to insure a thor-ough removal of scale and to provide the desired flexibility of the cleaner to readily pass through bent or curved tubes, flues, or pipes.

INDICATOR .---- C. W. SNYDER, Hudson, N. Y. The improvements are in indicators adapted for use in connection with engines, for making indicator cards to show the variations in the pressure in the cylinder during the movement of the piston. It is especially adapted for use

Railways and Their Accessories,

GRAIN-CAR DOOR .- P. J. A. SCHNOOR, Holstein, Iowa. This door is intended to meet the several requirements in loading or unloading grain and can be conveniently manipulated to form openings of more or less extent according to the use to which the car is to be put. It may readily be attached to the door of an ordinary car.

DUMPING CAR.-T. LAWSON, New York, N. Y. This invention pertains to dumping cars admitting of general use, and particularly rail-, A way cars of the general type described former patent granted to G. I. King and T. Lawson. The object of the present invention is to improve the general construction of the car, and especially of the means for tilting the box and opening the doors thereof.

MAIL-BAG CATCHER.-D. W. COUNCIL, Rutherfordton, N. C. The object of this patent is to provide a device which may be applied to A

the shore of the lake, and made a circle wherein the amount of water conducted to the horse to be instantly released in case of necess the vehicle.

CARBURETER FOR INTERNAL-COMBUS-TION ENGINES.—P. J. GROUVELLE and E. H. ARQUEMBOURG, 71 Rue du Moulin Vert, Paris, France. The object of the inventors is to obwhich is created in the carbureter by the suction of the motor and to permit of varying the proportions of air and of carbureting fluid according to requirements by using the vacuum itself.

Designs.

DESIGN FOR A BADGE .-- J. W. GREEN, LOS Angeles, Cal. The badge has the shield form with a beaded border. Inside of this the flat surface is ornamented with a clock face at the top placed between the outspread antlers of a deer on whose collar are the capital letters B. P. O. E. A small flower is on each side of the animal's head at the lower corners.

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United States were Issued

for the Week Ending

August 31, 1909,

AND EACH BEARING THAT DATE [See note at end of list about copies of these patents.]

Abnormal potential discharging and arc dis-	
rupting device, Erickson & Lord,	
099 5/1	933 027
Acid making apparatus, sulphuric, F. J.	000,021
Falding	022 101
dding machine, J. H. Ginet, Jr	020 400
dvertising apparatus, C. F. De Soria	932,402
Advertising apparatus for cars, etc., J.	954,120
Crane, Jr.	000 50
Advertising device, automatic dental, La-	932,764
Talloo & Cupstonting using La-	
vallee & Constantineau	932,875
ir brake appliance, safety railway truck,	
J. D. Berling	932,675
Air brake appliance, safety railway truck, J. L. Bering	932,712
memp, J. Muckle	932 884
irship, J. A. Rignon	932,999
lbumen and animal casein and the product	
therefrom, treating vegetable. F. G	
Wiechmann	932,521
Malfa cutting machine, D. L. Adelsperger	932 74
Ammonia from coal gases, recovering, F. J.	00 2 ,1 R
Collin	932,758
musement apparatus, H. N. Ridgway	932,904
Annealing furnace with inlet sealed by	332,309
steam, C. C. Baldwin	000 045
Antiseptic composition containing phenyl	932,94
sectors N Sul-bannen	932.647
acetate, N. Sulzberger	
Apparel apparatus, E. Kasralowicz	932,870
Assorting and sizing apparatus, E. W.	
Johnson	932,783
Atomizer, T. A. De Vilbiss Atomizer for perfumes and other liquids,	932,6
atomizer for perfumes and other liquids,	
H. Rachmann Automatic gate, J. W. Johnson	932,718
Automatic gate, J. W. Johnson	932,473
Automobile carriage, T. J. Van Pelt	933.007
Bag filling machine, J. L. Drohen	933 02#

to the unevenness of the ground. Curtiss and Bleriot crossed the startling line Mich. This invention pertains to improvements every day in the 31-mile race for the in stretchers, and more particularly to that type from the holder, and which will deliver the outgoing bag, at the time it receives the inbut no extended flights were made up and a pivoted lever member having dogs in ento the time of our going to press. It was much to wind on the 10th instant for much too windy on the 10th instant for any flight to be made. At Berlin Orville Wright continued to make daily flights. On September 7th he flew for 52 minutes, Richmond, Va. In the present patent the in- object is to provide a spring, arranged to yieldand on the 9th he made two flights for vention is an improvement in hot water heaters Crown Prince Frederick. He is teach-ing Capt. Englehardt to operate the ma-bine. At Scarbearusch Beach and it has for its object the provision of a simple and effective structure which will be durable in operation, and which will not easily requiring the heavy multiple leaf springs now chine. At Scarborough Beach, near get out of order or leak and will produce a generally employed. Toronto, Can., Mr. C. F. Willard last maximum heating effect in operation. week made two excellent flights out over Lake Ontario with the Curtiss biplane of the Aeronautic Society. Each time he started by running down an incline on started by running down an incline on practically independent of the boiler proper, and cured to the vehicle, and which permits the

Heating and Lighting.

the car without any changes in the same, which WIRE-STRETCHER.-F. STANLAKE, Owosso, will take the bags from the crane or support already in use, and hold it until it is removed coming one.

Pertaining to Vehicles.

VEHICLE-SPRING .- J. N. BREWSTER, New York, N. Y. The invention refers to carriages. HOT-WATER HEATER.-E. B. SADTLER, road wagons, trucks and like vehicles, and its ingly support the vehicle body and to readily

HARNESS .- D. F. BALENTINE, Greenville,

Bag filling machine, J. L. Drohen	933,005
Bag tie, J. M. Stryker, reissue	13,017
Baggage records, manifold sheet for, W.	10,011
Leach	932.620
Baling machine, R. A. Caswell et al	932,755
Ball carrier, J. T. Cowley	932.762
Base ball, B. F. Shibe	932,911
Basket, folding, W. A. Snyder	932,826
Batteries, container for secondary, E. L.	002,020
Oppermann	932,637
Battery covering, G. E. Andrews	932.841
Bearing, roller, J. H. Cook	932,76
Bed, folding, J. Maurer	932,626
Bed or couch, extensible, J. Ludwig	932,794
Bed pan, M. F. Cagle	932.442
Bedclothes clamp, G. W. Bacon	932.748
Bedstead shipping box or crate, S. Rosenthal	932,581
Beer dispenser, root, F. H. Anderbérg	932,942
Belt cleaner, J. A. Bowen	
Belting, P. L. Wooster	
Bench. See Washbench.	000,011
Billing sheet, multiform, E. Z. Lewis	932.713
Binder, loose leaf. S. H. Mitchell	932,801
Blacking machine, edge, W. E. Wentzel	
Blank furnace, W. Scrimgeour	933 002
Boat for submarine vessels, life, H. J.	
Walles	932,9 2 1
Boiler, C. E. Chapman	932,445
Boiler furnace, steam, D. L. Brownfield	932.440
Bolting machine, centrifugal, G. Cusson	932.847
Bottle, Smith & Humell	932,560
Bottle, E. Burns	932,956
Bottle and jar stopper. D. Baxter	932,948