RECENT AMERICAN INVENTIONS.

The following are some of the most important improvements for which Letters Patent were issued from the United States Patent Office last week. The claims may be found in the official list on another page :

Fence .-. This invention consists in arranging the uprights on the ends of the panels of a fence in such relation to the longitudinal rails that they project beyond the ends of those rails which are secured to in the other, such wad being constructed of such them, and that they catch over the ends of the rails diameter relatively to that of the bore of the gun in of the adjoining panel, leaving an open space between the adjoining ends of longitudinal rails, whereby the fence is chabled to adjust itself to uneven ground; it consists further in the employment of gibs and keys passing through mortises in the uprights and between the ends of the longitudinal rails in such a manuer that the panels are firmly secured, and, at the some time, they are not prevented to follow the inequalities of the ground; it consists further in cape of gases and obtain the application of the enthe arrangement of notches in the upper ends of the tire explosive force of the powder to the projection of but must bring them into general use. braces to eatch into notches in the lower edges of the the projectile, and in such a manner that in rifled braces catching over the upper edge of the second rail projectile a rotary motion. from the top, so that said braces are firmly retained without the use of nails, and that they steady the fence in the most perfect manner. Invented by William Gibson, of Fort Wayne, Ind.

Percussion Projectiles. - This invention, by C. W. Isbell, of New York city, relates to explosive projectiles of elongated form, to be exploded by the act of striking. Its principal object is so to apply a percussion apparatus in such a projectile as to enable it to be made solid at the point or end which strikes, and another object is to enable the projectile to be transported ready primed without danger. It consists in the bination of drawing and twisting mechanism to proattachment of the hammer of the percussion apparatus to the rear portion or breech of the projectile by a device which holds it back until the discharge of the projectile from the gun: also in so constructing and applying the said device for attaching the hammer to the rear portion or breech of the shell that it may be caused to liberate the hammer by the drivforward of the rear portion of the projectile relatively to the front portion thereof, by the act of discharging the projectile from the gum, the hammer, when so liberated, being held back by inertia, until the projectile strikes, when the momentum carries it forward and causes it to explode the percussion priming.

Paper Folding Machine .- The object of this invention, patented to Lewis E. Osborn, of New Haven, Conn., is to obtain a machine which will be capable of being applied directly to a printing press, and operated automatically therefrom, receive the printed sheets from the press and discharge them in a folded state, in connection with railroad braking, which promise the sheets being folded one or more times-that is to say, in folio, quarto, octavo form, &c., as may be desired. The invention is more especially designed for folding newspapers for mailing, but may be advantageously used for folding other printed sheets. The States and in the principal countries in Europe, coninvention consists in the employment or use of one or more pairs of rollers provided with fingers or nip- indicator, all for railroad cars. pers and conveying tapes, in connection with adjustable holding tapes, one or more feeders fitted in the fly, and in a feeding frame. All arranged so as to effect the desired end.

Mode of Making Baskets .- The object of this inven tion is to facilitate the construction of baskets so that the sub- may be constructed not only in a more expeditions manner than hitherto, but also of any desired dimensions, so that they may be made accurately to a gage, and serve as measures of capacity. To this end, the invention consists in the employment or use of a block or former provided with guides, feetly and mechanically distributed upon every car, cords and gage measures or marks, over which the as to secure the almost instantaneous stopping or at the same time a depositing trough containing a basket is formed or made. Invented by J. D. and J. T. Shuler, of Lockport, N. Y. Spinning Frames. - This invention relates to the use

of front drawing rolls having an intermitting action ; can be done by hand, by momentum, or by steam, as for the purpose of allowing the twist to run back from an apparatus for preventing the strain arising from cut in the train, and any separate car in the train ously on the twisted yarn above the suid drawing means by which the continuous braking is effected. rolls, such apparatus consisting principally of two surfaces, between which the yarn passes, and one of which moves toward and from the other, to seize the roving or yarn before each intermission in the action of the drawing rolls takes place, and liberate it im-

mediately after the resumption of the action of the all based upon the same general principle, for operatrolls. city.

Wed for Ordnance. -Elijah D. Williams, of Philadelphia, Pa., is the inventor of a wad composed of method of operating the brakes. two or more concavo-convex disks of metal, each having a series of radial or nearly radial openings so arranged with respect to similar openings in the other or others that the metal of one covers the openings which it is to be used that it will pass easily through the bare in loading, but that the explosive force employed in ramming the charge home, or both of these forces will act upon it to change its cor.cavo-convex form to a plane or a form approximating nearer to a plane, by which it will be spread laterally, and caused to fill and close the bore between the powder and the projectile, in such a manner as to prevent all esupper rails, together with notches in the edges of said arms it will be caused to receive and impart to the taneousness and equality, as well as efficiency, econo-

Ships.—This invention consists in compensating for the loss of buoyancy at the bilge of a vessel, conselower down the sides, and extending it below the usual base line to any point not below the bottom \bullet f has the financial and business control and manage ing. according to this patent, which was obtained by John be invited to witness their operation. W. Griffiths, of Philadelphia, Pa.

Spinning Frame — This invention relates to the comduce draft and twist simultaneously in the same portion of the roping or yarn. It consists in a certain have excited interest among the Punjabees even more novel system of drawing mechanism applied directly to the spindle of a spinning frame, whereby the simultaneous draft and twist are obtained with a more simple construction of the machinery than heretofore. W. T. Abell, of Vernon, Iowa, inventor.

Wisconsin Inventions .-- Improvements in Railroad Brakes.

We copy the following article from the Daily Wisconsin, published at Milwaukie. The inventions described have been secured by patent through the Scientific American Patent Agency, and we expect soon to illustrate them in our columns :-

We had the pleasure of witnessing, on the evening of the 7th, at his room in the Newhall House, some of the inventions of Mr. A. I. Ambler, of this city, great benefits to railroad interests, and great pecuniary advantage to the inventor and those connected with him in the enterprise.

These inventions, which are patented in the United sists of a brake, a coupler, an improved shoe and an

We cannot, in this article, give a description of these inventions, or set forth all their merits. We will order -would be entitled to the thanks of all the simply state that they dispense with all brakemen on passenger, freight and mixed trains, and place the whole braking power in the hands of the engineer, to whom it properly belongs.

By the use of these inventions, the engineer can obtain the maximum of power with perfect uniformity of pressure, and continuity of action upon every wheel throughout the train, in two seconds of time, thus bringing a resistance to the momentum, so perwithout any injury to the machinery or train, so perfect is the arrangement to this end. The braking may be desired. It may be proper also to state that a wooden roller, and is thus electro plated. the spindles to the delivery rolls, and it consists in $\frac{1}{2}$ the whole traincan be stopped by hand from any given

> These inventions accomplish three things never before attained in car braking-continuity of braking by one man, simultaneous action and perfect uniformity of pressure on all the wheels in the train. Mr. Ambler has some nine different combinations,

Patented to John H. Bloodgood, of New York ing the brakes, seven of which are completely shown up by models of 35 inches in length, and coupled together in a train, each model showing a different

> From the fact that these brakes dispense with all brakemen, prevent the wheels of cars from sliding on the track, bring the whole face of the shoe upon the wheels and prevent unequal wearing, increase the frictional surface of the shoe upon the wheel by a new and simple device, and enable the engineer to put all the braking power of the train upon the wheels, in the same time that would be required to signal the brakeman in the ordinary method of braking, we are convinced that they will be an immense saving to railroad companies, and afford great addi tional security to life and property. When railroad managers shall have examined these inventions, and made themselves acquainted with their simplicity, economy and efficiency, they cannot dowithout them,

> Their leading characteristics are, continuity, simulmy and safety.

Mr. Warrick Martin, well known in Milwaukie as the successful prosecutor in the large case of Martin quent upon its rotundity, by commencing the bilge against Brooks, in the District Court of the United States, owns one-third of all of these inventions; and the keel, but below a horizontal line with the top of ment of the whole. The parties contemplate putting the keel, the principal object being to prevent roll- these inventions on a train of cars in Chicago soon. The U.S. steam gunboat Pawnee is built when those interested in railroads and the public will

> THE LOCOMOTIVES IN INDIA. -- The London Engineer says :- The opening of the railway from Umritsir to Lahore, at the beginning of last month, seems to intense than that felt by the Bengalees in 1854. Day after day thousands congregate, from the most distant places, to see the Lawrence locomotive come into Umritsir. Its fame has spread to the Peshawur and Mooltan frontiers. Some daring spirits insist on a ride on the "fire horse," just as the Bengalees used to crowd round to examine the new "car of India," and would not be convinced of the danger they incurred till a cow was killed straying on the line. Brahmin, looking on the locomotive at Umritsir, remarked, "All the incarnations of all the gods in By this India never produced such a thing as that. time the news has been carried by the trading caravansinto Cabul and Central Asia, and so our prestige increases.

-----The Greatest Field for Inventors.

MESSRS. EDITORS : - The people everywhere, and c. pecially those of the cities and villages, are asking for cheap light; and the inventor of any improve nient for the burning of the coal oils, that are not cheap-an improvement that would take the place of gas for parlors and halls—and also a lamp for move ble purposes-some contrivance that would be at once cheap, convenient, simple and easily kept in world, and would reap to himself a golden harvest. No richer field was ever offered to inventive genius. Something is wanted that, by its completeness and adaptability, will at once compete with the gas monopolies. X

ELECTRO-PLATING IRON WIRE .- To prevent iron wire from rusting, it is proposed to coat it with copper at one continuous operation, by running it off one reel and taking it upon another, drawing it through. braking of the train. This is, however, effected ; solution of the sulphate of copper. The wire is first scoured bright and then passed over a grooved metal roller in the trough connected with the pole of a battery, where it is drawn slowly through bath upon

A LETTER from Trieste states that the iron-cased the draft of the bobbin or spindle from acting injuri- can be stopped by hand, without interfering with the frigate Salarander was launched there recently, and was to be immediately fitted out. She is the first vesel of the kind in the Austrian navy. Two floating batteries, the Peiko and Palestro, will be launched at Rochefort this month, and experiments are about to be made of a formidable cylingro-conical projectile, of which much has been said.