ENGINEERING INVENTIONS.

An automatic attachment for locomo tives has been patented by Mr. Norman F. Chase, of Montrose, N. Y. This invention supplies a novel construction whereby certain devices upon the locomotive may be operated by a person on the track or at a station to signal the engineer or stop the locomotive.

A car coupling has been patented by Mr. Noble K. Parks, of Pilot Grove, Iud. By this in vention the reversible coupling bar is formed at one end with spring clamping jaws and at the other end with an arrow shaped head to adapt it to be reversed in the drawhead, to present either the clamping jaws or the arrowhead at the forward open end of the drawhead, as may be required

A freight car door lock has been patented by Mr. James Abbott, of Elmira, N.Y. A shaft with a squared upper end is journaled in the car roof, rods connecting with the inner end of the shaft extend to the sides of the car, and a hasp is pivoted on the roof of the car, and provided with an aperture for receiving the upper end of the shaft, making a simple and safe lock, to be operated from the roof of the car.

A steam engine has been patented by Mr. James S. McCoy, of Brooklyu, N.Y. The slide valve is carried by and within the piston, around which a steam space is formed in the cylinder, so that the pis-ton is rendered almost entirely frictionless, the steam inlet port to the cylinder being immediately below the piston, whereby the pressure of steam will counteract the weight of the piston, with various other novel fea tures.

..... MISCELLANEOUS INVENTIONS.

A clay tempering machine has been patented by Mr. Frank Middleton, of Richmond, Va. This invention relates to novel construction of the main frame and to the method of trausmitting and applying the power, whereby the mechanism is simplified Md greater steadiness of frame and machinery ob tained.

A vulcanizable gilding rubber has been patented by Mr. Jehu H. Wood, of Lebauon, O. This invention covers, as a new article of manufacture, a sheet of vulcanizable rubber, to which coatings of chloride of silver have been applied, together with a novel process of applying such coating, more especially for use in making dental plates.

A belt clasp has been patented by Mr. George E. Zeltmacher, of Brooklyn, N. Y. This iuven tion covers a novel device, whereby belts can be readily adjusted to an increased or diminished length, so that they will remain securely in place when adjusted, and the device will not disfigure or otherwise injure the belts.

A cotton gin has been patented by Mr. Franklin H. Lummus, of Brooklyn, N. Y. Connected | Canada. Cost for Canadian patent, 840. Various other with the saws and brush cylinder is a combined carding brush and fire extinguisher, having a continuous un-broken surface of bristles, so arranged that draught agency, 361 Broadway, New York. broken surface of bristles, so arranged that draught through or between the bristles is prevented and a fire extinguishing surface is produced.

A shank lasting apparatus has been patented by Mr. Frank B. Beyerle, of New York city. It has jaw arms with pivoted jaws, and links pivotally counecting the ends of the jaw arms to allow relative longitudinal movement, with other [novel features, the invention being au improvement on a former patented invention of a similar tool.

An apparatus for manufacturing double film photographic sensitive paper has been patented by Mr. Heury J. Newton, of New York city. The appara tus embraces guiding, tensiou, and wiping devices, supported in bearings adjustable in reverse directions, to regulate their distances apart upwardly and laterally, for evenly distributing sensitive emulsion on both side of the paper simultaneously.

An anchor for fence posts has been patented by Mr. Jacob V. Higgins, of near Three Bridges, N. J. The anchor base plate has an aperture to receive an iron fence post, there being an upwardly projecting neck around the rim of the aperture, and this plate is intended to be placed so low that the top of the piece will be below the surface of the ground, in which, being loose on the post, it can work up or down with the action of the frost without tilting the post

A combined latch and lock has been

by excellent illustrations drawn by the author, who is a skillful artist as well as archæologist. Mr. Harrison and Mr. Preston have papers respectively on mound explorations in Iowa and Illinois. The Elephant Pipes and Inscribed Tablets in the Museum of the Academy have been carefully described by Mr. C. E. Putnam. There are in addition a number of biographical and miscel laneous papers, which make a total contents ver creditable to the Academy.

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to may be had at the office. Frice to centes caon. Books referred to promptly supplied on receipt of

(1) A, H. M. asks: In a dynamo not using batteries or permanent magnets, where is current of electricity generated that makes the field magnets electro magnets? A. In the armature, and thence part or all the current is carried around the field magnete

(2) L. J. asks about cleaning petroleum pipes. If a powerful magnet be fixed in the scraper, would a compass passed on the outside not indicate the scraper's position? Is the pipe stoneware or iron? A. The pipe is iron. A magnet in the scraper might to a slight extent deflect or affect a poised iron or steel unmagnetized needle. The compass would be useless, as the metal of the pipe would affect it. Two difficulties in connection with any such plan are: 1. The metal pipe would, by distributing the magnetism, act as a magnetic shield, so that it is questionable if any evidence of its presence could be obtained. 2. A strong magnet, by attraction to the sides of the pipe, would help to obstruct the movement.

(3) J. S. M. asks for description of the Jamin maguet, its form and construction, and the quality of steel used. A. Jamin's horseshoe magnets are made of plates of steel magnetized separately and arranged one within the bend of the other, or concentrically. For tempering, etc., consult SUPPLEMENT, Nos. 302 and 318.

(4) D. B., of Ohio. - A State court has no authority to prohibit the use of a patent pending the action in a suit brought thereon, which necessarily involves the question of infringement.

(5) O. J. S. asks (1) if coal gas decreased in bulk one-half will develop double the pressure. A. It will. 2. How many cubic feet of coal gas would be contained in a reservoir 15 inches diameter and 3 feet C in length, at a pressure of 200 pounds per square inch? A. 492 cubic feet.

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June 8, 1886,

A combined laten and lock has been	Supplies, have removed to as chambers St., city.		cutter.
patented by Mr. Joshua B. Hutson, of Richmond, Va	We are sole manntacturers of the Fibrous Aspestos	[See note at end of list about copies of these patents.]	Dental vulcanizer, F. W. Seabury
Combined with the sliding bolt of the lock is a slidin			Dentist's vulcanizing apparatus, automatic regu-
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