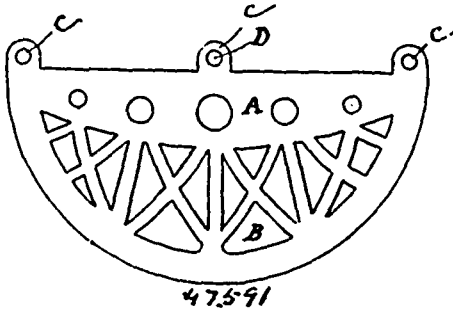


of moulding a railroad frog or crossing which consists in constructing the mould in three longitudinally divided sections each composed of dry sand mould parts, which jointly form the matrical cavity of the mould, and bringing said mould sections to the required angle in relation to each other by means of a templet, substantially as hereinbefore specified.

**No. 47,591. Bracket for Saddlery.**

(*Porte-harnais, selles, etc.*)

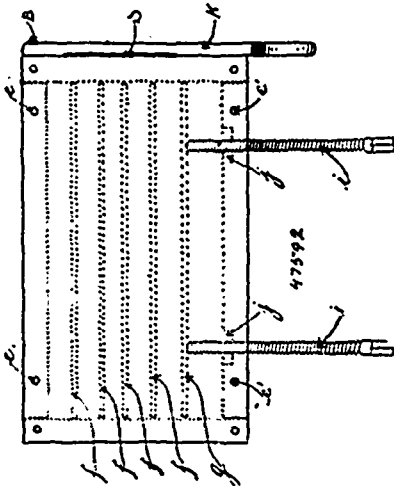


Francis Gourdeau, Ottawa, Ontario, Canada, 4th December, 1894; 6 years.

**Claim.**—1st. The art of making brackets for saddles and harness, which consists in cutting the material for the bracket, from sheet metal, perforating it to any desired pattern, and then bending it to the curve required. 2nd. As a new article of manufacture, a bracket made from sheet metal by cutting from it a portion of the desired shape and size, and perforating and bending said portion to a curve suitable for its purpose, substantially as set forth.

**No. 47,592. Tobacco Press and Knife Combined.**

(*Presse et couteau à tabac combinés.*)



Adjutor Menard, Montreal, Quebec, Canada, 4th December, 1894; 6 years.

**Résumé.**—1<sup>re</sup> Une presse à tabac constituée par une boîte en bois ou en métal, dont le dessus *a*, le fond *b*, et les côtés *c c'*, sont solidement assemblés, dont les côtés *C* et *d* peuvent être solidement fixés en place au moyen des chevilles *e e' c' c'*, l'un de ces côtés (désigné par la lettre *C*), étant pourvu des écrous *j j*, dans lesquels les vis *i i*, peuvent se mouvoir et pousser sur la planchette de fer *g*, qui, à son tour presse le tabac, séparé en palettes plus ou moins grosses par les planchettes *f f f*. 2<sup>e</sup> La combinaison de la presse ci-dessus décrite avec la planche *K*, munie du couteau *S*, qui le tout ensemble constitue la machine à couper le tabac, le tout tel que décrit et pour les fins indiquées.

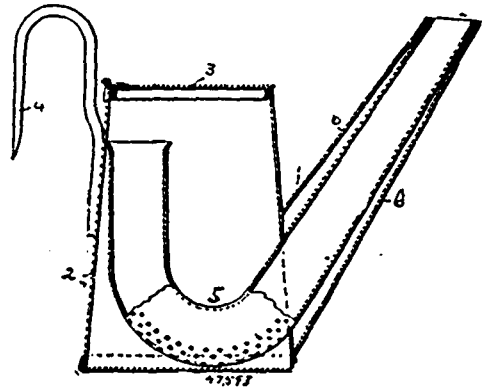
**No. 47,593. Miner's Lamp.**

(*Lampe de sûreté pour mineurs.*)

William P. McMaster, Munhall, Pennsylvania, U.S.A., 4th December, 1894; 6 years.

**Claim.**—1st. A miner's lamp, having a wick-tube extending within the lamp body and curved upwardly, said inner portion having perforations in the lower side of its bent portion, substantially as and for the purposes described. 2nd. A miner's lamp, having a

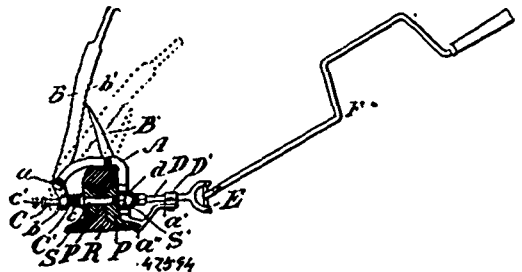
wick-tube extending within the oil reservoir and bent upwardly therein, said tube having perforations in the lower side of its bent



portion, and an outer tube surrounding the outer portion of the wick-tube, substantially as and for the purposes described.

**No. 47,594. Nut and Screw Tightening Machine.**

(*Machine à serrer les noix et vis.*)



Ferdinand Phillippe Bruneau, Lyster Station, Quebec, Canada, 4th December, 1894; 6 years.

**Claim.**—1st. The combination of a jaw passing over and partly around any object desired to be bolted together and affording a pivot point above the bolt centre at one end and a projecting platform below the bolt centre at the other, a lever pivoted to the pivot end and having at its downward extending short arm a hub and ratchet-teeth at its upper end, a mandrel adapted to slide in the hub of said lever in a line with the bolt to be secured and carrying a chuck adapted to receive the bolt head, a spring between said chuck and hub pressing the two apart, a pawl pivoted to the upper part of the jaw and adapted to engage the teeth of the lever, a spindle journaled slidably upon the platform of the jaw in line with the bolt to be secured and having a chuck adapted to receive and retain the nut to be secured and a brace connected to said spindle by a universal joint, substantially as set forth. 2nd. The combination of a clamp formed of a jaw adapted to partly surround an object to be bolted together and of a spring actuated mandrel with chuck in line with the bolt to be secured carried in a lever pivoted at the rear end of said jaw and a pawl pivoted to said jaw and adapted to engage said lever, a spindle journaled slidably upon a projection of said clamp in line with the bolt to be secured and carrying a chuck adapted to receive and turn the nut and means of operating said spindle, substantially as set forth. 3rd. The combination of a jaw adapted to partly surround an object to be bolted together, a spring actuated mandrel with chuck in line with the bolt to be secured, a lever pivoted above the centre of the bolt in said jaw and carrying said chuck at its lower end and having ratchet-teeth at its upper end, a pawl pivoted in the top of said jaw adapted to engage the ratchet-teeth of the lever, a spindle journaled slidably at the other side of the jaw opposite said mandrel upon a platform formed by said jaw below the centre of the bolt and carrying a chuck adapted to engage the nut, a brace or winch for turning said spindle and a universal joint connecting said spindle and brace, substantially as set forth.

**No. 47,595. Revolver. (Pistolet.)**

Ernst Paul, Wiesbaden, Prussia, Germany, 4th December, 1894; 6 years.

**Claim.**—1st. A combined thrust arm and hand firearm, comprising a butt-sheath, and a knife blade adapted to be held therein, substantially as described. 2nd. A combined arm, comprising a firearm, a butt adapted to receive a knife blade, and a spring held within the butt to act upon the blade, substantially as described. 3rd. A firearm, comprising a removable butt-sheath conforming to a section of said butt piece, and a knife held within said sheath, substantially as described. 4th. A sheath knife, adapted to fit the butt of a firearm comprising a casing *a*, blade *a*, *b*, having perfora-