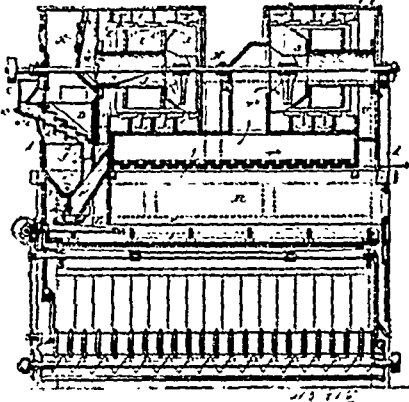


diverging arms, clamps at the ends of said arms, splasher supporting bars held by said clamps and provided with sponge-holding hooks at their inner ends, and towel-racks pivoted to the outer ends of the said bars.

No. 45,915. Middlings Purifier and Dust Collector.
(*Epurateur des gravaux et appareil à recueillir la poussière combinés.*)

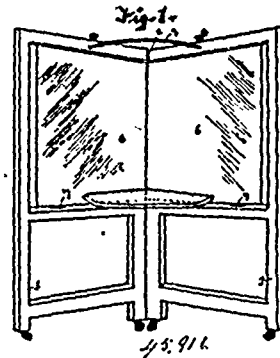


William Dickson Gray, Milwaukee, Wisconsin, U.S.A., 1st May, 1894; 6 years.

Claim.—1st. The combination in a middlings purifier of an aspirator, a dust catcher, and fan arranged to circulate the air through the aspirator, and dust catcher, a sieve arranged to receive partially purified material from the aspirator, a second dust catcher communicating with the sieve, and a fan arranged to circulate air through the sieve and its dust catcher. 2nd. In a middlings purifier, the combination of two purifying mechanisms, one arranged to deliver to the other, each purifying mechanism including a dust catcher and a circulating fan. 3rd. In a middlings purifier, the combination of an external casing, a feed mechanism, a series of aspirating shelves to which the said mechanism delivers the material to be purified, a shaking screen to which the material is delivered from the aspirator, a dust-catcher communicating with chambers above and below the aspirating shelves, a fan to circulate the air in an upward direction between the shelves and thence through the dust catcher and the space beneath the shelves, a suction chamber overlying the screen, side chambers opening above the sides of the screen and a chamber thereunder, a dust-catcher communicating with the suction chamber, and a fan arranged to induce a continuous circulation of air upward through the screen and the suction chamber to the dust-catcher and thence in a downward direction past the sides of the screen, that it may re-ascend therethrough. 4th. In a middlings purifier, the aspirator and the sieve to which it delivers in combination with the suction chamber and side chambers overlying the screen, the two dust catchers communicating respectively with the aspirator and the screen, and a shaft provided with two fans for maintaining currents of air through the respective dust catchers and their connections. 5th. In a middlings purifier, in combination with the aspirator shelves, the underlying chamber, the overlying chamber, the annular dust catcher communicating at the top with the last named chamber and fan, and a passage extending thence to a chamber beneath the aspirator. 6th. In a middling purifier, an aspirator comprising a series of shelves over which the material flows. 7th. In combination with a dust catcher comprising a horizontal cylindrical screen, a series of annular chambers or pockets and a fan turning on a horizontal axis, said catcher communicating through a top opening with the upper part of the aspirator chamber and through a lower passage with the aspirator chamber. 8th. In combination with the aspirator, the dust catcher consisting of a cylindrical screen, the annular chambers and the fan, a passage leading from the top of the aspirator chamber downward to the centre of the dust catcher, a central tube in the latter, and rotary blades to prevent the lodgment of material in said tube. 9th. In a middling purifier, the combination of the shaking sieve, the overlying suction chamber, the side chambers opening downward past the sides of the sieve, the horizontal shaft carrying a fan and a cylindrical screen, the annular dust receiving pockets or chambers encircling the screen, a passage leading from the suction chamber to the fan, and a passage leading from the fan and dust catcher to the side chamber above the sieve. 10th. In combination with the sieve, the overlying suction chamber and side chambers, the horizontal dust catcher communicating with the suction chamber, the chamber leading from the dust catcher to the side chambers, and a deflector arranged in the path of the down-going air to distribute the same lengthwise of the side chambers. 11th. In combination with the aspirator, the screen and the two dust catchers communicating with the aspirator and screen respectively, the dust-receiving chamber of the aspirator, its delivery conveyor and the side con-

veyor delivering the dust from the first named conveyor and from two dust catchers.

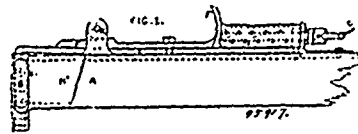
No. 45,916. Mirrors for Use in Photography.
(*Miroirs pour l'usage de la photographie.*)



Henry P. Ranger, Rochester, New York, U.S.A., 1st May, 1894; 6 years.

Claim.—1st. The combination with the mirror frame having the ways arranged at an angle, of the mirrors independently and longitudinally movable in said ways, substantially as and for the purpose set forth. 2nd. The combination with the frame composed of two parts hinged together and open at their proximate sides, of the mirrors independently movable in said frames substantially as described. 3rd. The combination with the frame composed of two parts hinged together and having the grooves or ways therein open at their proximate sides, of the mirrors independently movable in the grooved carriers in the frames and having the handles for moving them, substantially as described.

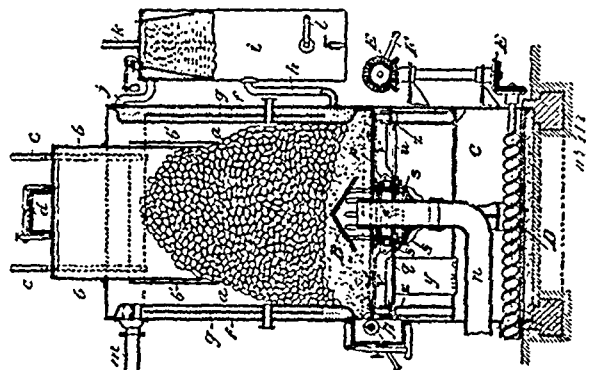
No. 45,917. Carriage Pole Tip.
(*Ferrure de bout de timon de voiture.*)



Edward Bailey, Folkestone, Kent, England, 1st May, 1894; 6 years.

Claim.—1st. The combination of a carriage pole tip having eyes or loops provided with a hinged section opening outwardly, a spring engaging said sections and a catch or bolt engaging said springs to keep said sections automatically closed, substantially as set forth. 2nd. A carriage pole tip having eyes or loops provided with an outwardly opening section and a spring closing said sections, as set forth. 3rd. The combination with a carriage pole tip, A, having eyes or loops B, provided with an outwardly opening section C, of the spring D, E, spring bolt F, and full strap G, as set forth.

No. 45,918. Generator for Gas.
(*Générateur à gaz.*)



Oliver William Ketchum, Toronto, Ontario, Canada, 1st May, 1894; 6 years.

Claim.—1st. The combination substantially as hereinbefore described, of an upper and lower grate and scrapers so arranged and