

actuating said cutter, said elongated frame being arranged to permit free vertical and horizontal movement of its forward end.

770,561—Switch-off Device for Endless Conveyors.—Frederick O. Crowley, Oswego, N. Y. In combination with an endless conveyor, a guide or switch-off device upon or in close proximity to the conveyor, and having an inlet in one end for receiving the articles to be fed and its other end deflected laterally to the sides of the conveyor whereby the articles are fed by the belt from the inlet and diverted from the belt by the guide.

770,290—Amalgamating Machine.—Frederick J. Hoyt, Chicago, Ill. The combination, with an air-tube having an air-mover at one end and a nozzle at its other end, and a funnel under said nozzle of a bowl and a globe in said bowl semi-submerged in mercury.

770,283—Ore-Concentrator.—Abel Guionneau, Denver, Colo assignor of two-thirds to Charles M. Fueller and Robert J. Cory, Denver, Colo. A reciprocating table-concentrator a flat, smooth table-surface provided with several rows of inverted conical cups extending from the head-end portion of the table throughout a portion of each table's length, each row of cups connected together with a sunken groove or raffle.

770,498—Mine-Car.—William E. Hamilton, Zanesville, Ohio assignor to Hamilton Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. A mine-car comprising side and end walls, one of said walls having an opening therein adapted to receive a part of a loading-machine, and means on said wall normally projecting into said opening to engage said part to couple said car and loading-machine together.

771,107—Ore Washing or Concentrating Machine.—Enos A. Wall, Salt Lake City, Utah. An ore concentrating machine or table adapted to receive actuating impulse from the head end, in combination with an operating rod or bar attached to the head of the table, a buffer-bar through which the rod passes, a spring on the rod at the inner side of said buffer-bar and a buffer block secured to the rod or bar at the outer side of the buffer-bar or timber to receive and resist the impact of the spring and suddenly stop the forward movement of the table at its head end as it moves in the direction of the tail, and means for retracting the operating-rod against the spring and suddenly releasing it.

771,075—Separation of Mineral Substances by means of the Selective action of Oil.—Cosmo Kendall, Upper Norwood, England. A process for the treatment of finely-divided material for the separation of graphitic substance contained therein from associated rocky matter or gangue, consisting in mixing said material with water, bringing said material intimately into contact or thoroughly mixing it with suitable pure thin oil, as kerosene or paraffin oil, projecting at a considerable velocity the mixture so produced under the surface of a volume compose of said material, water, and oil, allowing the oil and graphitic substance adhering thereto to pass upward to said surface, and drawing off from said surface oil and

graphitic substances immediately on arrival at said surface. 771,684—Dumping Car.—Swan F. Swanson, Pueblo, Colo. The combination of a car-body provided with an outlet, a door closing said outlet, and carrying a stiffening-strip having extended portions, sliding pivoted catches to engage said extended portions to hold the door closed, a crank-shaft for actuating said catches, and means for actuating the crank-shaft.

771,277—Process of Concentrating Ores. Alice H. Schwarz, New York, N.Y., assignor to Schwarz Ore Treating Company, a Corporation of Arizona. A method which consists in mixing a melted fatty matter which is solid at normal temperatures with the ore, then solidifying the fatty matter and separating the gangue from the values entrained in the fatty matter while the latter is solidified.

771,909—Mineral or Ore Washing Jig.—Charles J. Hodge, Houghton, Mich. The combination of a driving shaft, a pair of eccentrics through which said shaft passes and which are adjustable transversely of said shaft, a fly-wheel mounted on said shaft between said eccentrics and a crank connection between said fly-wheels and each of said eccentrics.

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