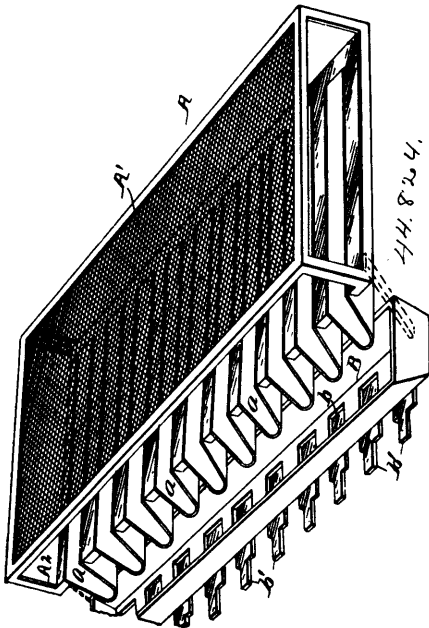


discharge outlets, the air trunk A communicating with the interior chamber adjacent to one of said diaphragms, and a fan to produce a continuous air current within the air trunks and air chamber, substantially as set forth. 22nd. In a purifier, separator and grader, the combination of an interior air chamber, communicating with air trunks A, A¹, A², a fan to produce an air current through said air trunks and air chamber, the trunk A¹ provided with cant boards P, P¹, an intervening diaphragm and a discharge outlet, substantially as set forth. 23rd. In a purifier, separator and grader, an air chamber into which stock is admitted, a fan to produce a current of air therethrough, and means to diminish the force of the air current at a desired point within said air chamber to effect a gravity separation of the stock, substantially as set forth. 24th. In a purifier, separator and grader, an air chamber, an air belt communicating therewith, a fan to produce an air current through said air belt and air chamber, and means to diminish the force of the air current at desired points, and thereby effect a gravity separation of the stock, substantially as set forth. 25th. In a purifier, separator and grader, an air chamber, an air belt communicating therewith, a fan to produce an air current through said air belt and air chamber, means to diminish the force of the air current at desired points and thereby effect a gravity separation of the stock, and devices to collect and discharge desired grades or separations of the stock, substantially as set forth. 26th. In a purifier, separator and grader, the combination of an air trunk, an air chamber communicating therewith, and a fan to provide an air current through said air trunk and chamber, substantially as set forth.

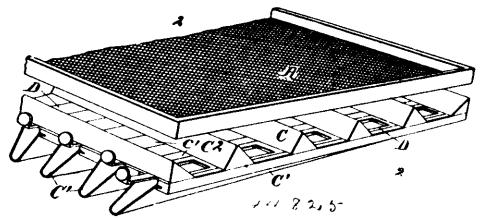
No. 44,824. Sieve Cut-off. (Détente de crible.)



David J. Davidson, Abraham S. Martin and Stephen G. Martin, all of Port Huron, U.S.A., 5th December, 1893; 6 years.

Claim.—1st. The combination of an agitable sieve, of a series of spouts or conveyors, a cut-off box into which said spouts or conveyors discharge, said box constructed with a series of discharge orifices and provided with valves or slides to control said orifices, substantially as set forth. 2nd. The combination, with an agitable screen, of a series of spouts or conveyors located therebeneath and agitable therewith, and a cut-off box into which said spouts discharge, said box constructed with a series of discharge orifices and provided with valves or slides to control said openings, substantially as set forth. 3rd. The combination, with an agitable sieve, of a series of spouts located therebeneath, an agitable cut-off box, into which said spouts discharge, said box constructed with discharge openings and provided with valves or slides to control said openings, substantially as set forth. 4th. The combination, with a sieve or screen, of a cut-off box into which the products passed through the screen are discharged, said box constructed with a series of discharge openings and provided with a corresponding series of valves or slides to control said openings, substantially as set forth. 5th. The cut-off box herein described, constructed with a series of discharge orifices and provided with a series of corresponding valves or slides to control said orifices, substantially as set forth. 6th. The combination, with a sieve or screen, of a series of spouts or conveyors located therebeneath and agitable therewith, substantially as described.

No. 44,825. Sieve Cut-off. (Détente de crible.)

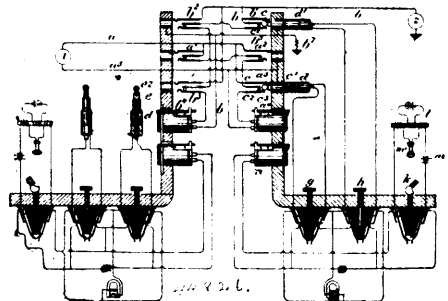


W. Allen Pendry, Detroit, David J. Davidson, Abraham S. Martin and Stephen G. Martin, of Port Huron, all in Michigan, U.S.A., 5th December, 1893; 6 years.

Claim.—1st. The combination, with a screen, of an independent cut-off bottom provided with a series of discharge orifices and means to control said orifices, substantially as set forth. 2nd. The combination, with a screen of an independent cut-off bottom whereby the commodity passed through the screen may be cut off at any desired point, substantially as set forth. 3rd. The combination, with a screen, of an independent cut-off bottom provided with discharge orifices, and means for controlling said orifices, and the series of spouts located below said orifices, substantially as set forth. 4th. The combination, with a screen, of an independent cut-off bottom provided with a series of discharge orifices, and means to control said orifices, the discharge orifices of each series arranged in line, substantially as set forth. 5th. The combination, with an agitable sieve, of an independently agitable cut-off bottom, substantially as set forth.

No. 44,826. Multiple Telephone Switchboard System.

(Système de plaques multiples pour commutateurs.)



The Bell Telephone Company of Canada, Montreal, Quebec, Canada, assignee of Charles E. Scribner, Chicago, Illinois, U.S.A., 5th December, 1893; 6 years.

Claim.—1st. A connecting plug consisting of a central conducting core, a conducting sleeve concentric with and insulated from said core and of such length as to leave a portion of said core exposed, and an insulated tip secured to said core, substantially as described. 2nd. The combination, with a spring-jack having a line-spring and a test-ring or frame insulated therefrom and an auxiliary spring and contact-anvil insulated from both line springs and test-rings, of a plug having one contact piece making contact with the test-ring, and another contact-piece making contact with the line-spring and insulated tip entering under one end of the auxiliary spring and raising it from a contact-anvil, substantially as described. 3rd. The combination, with a telephone line extending from a substation, of spring-jacks at a central station, each consisting of a line-spring, a test-ring insulated therefrom, and auxiliary springs and contact-anvils, as described, said line-springs and test-rings being connected with the two sides of line, respectively, and a conductor joining the two sides, including in series an annunciator and all the auxiliary springs and contacts, substantially as specified. 4th. The combination, with a line-circuit extending from a substation to switchboards at a central station and connected at each board to a spring-jack having a test-ring, a line-spring insulated therefrom, and an auxiliary spring and contact, said line-springs and test-rings being connected to the sides of the line, respectively, and said auxiliary springs and contacts being normally included in series with an annunciator in a branch connection between the two sides, of a plug inserted into one jack, having contact-pieces making contact with the test-ring and the line-spring of the jack, respectively, and a tip separating the auxiliary spring from its anvil and a test-battery and responsive device included in a circuit between the two contact-pieces of the plug, substantially as described.