



**Mining and mine ventilation; a practical handbook
on the physics and chemistry of mining and mine
ventilation for vocational schools, and for those ...
mine foreman and mine inspector certificates**

Joseph James Walsh

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1915 Excerpt: ...In order to reverse the air current it is only necessary to change the direction of rotation. The Sihocco Fan (Fig. 18)--The special advantages presented by this fan are: (1) large inlet area; (2) uniform action over the whole periphery, due to the large number of blades; (3) absence of whirlpool motion of the entering air before reaching the fan blades, thereby avoiding the expenditure of power on unnecessary work; (4) the blades are so constructed and arranged that the power consuming eddies are minimized. Instead of the work being done by 12 or 16 blades, as in the majority of old fans, the Sirocco has 128 blades in the double-inlet type of fan, thereby securing uniformity of action around the entire circumference. Fig. 19 shows a single-inlet reversible fan and fan drift installed at a drift mouth, and Fig. 20 shows a doubleinlet reversible fan on a shaft mine. It frequently happens that a fan installed at a mine cannot create sufficient pressure to cause the proper volume of air to circulate through the remote parts of the mine. To remedy this difficulty a booster fan (Fig. 21) is sometimes installed at a convenient point in the airway. In all such installations, however, the pressure produced by the booster must be above the pressure of the air current at the point of installation. If the booster is unable to produce a greater pressure than is already in the air current, then it will be unable to increase the volume. Below is given a table of approximate capacities of various sizes of Sirocco fans against varying resistances. As stated, no definite rule can be given by which the quantity of air a fan will cause to flow through a mine can be calculated, unless the exact mine conditions are known. A fan listed in the tables, given herewith, as being cap...

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