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(57) Abstract :
7. ABSTRACT A device to operate on a principle of longwall top coal caving comprises a shearer (102), a front AFC (104), a set of roof supports (112), an extended rear canopy (106), a rear AFC (108) and hydraulic supports (110). The lower section of seam is cut by the said shearer (102) at set height of about 6 meters. The coal cave left above the section cut falls onto the said extended rear canopies (106). The said extended rear canopies (106) sequentially opens to transfer the coal onto the rear mounted AFC (108). The front (104) and rear AFC (108) transports the coal out of face to transfer it to the belt conveyor. The operating cost and maintenance costs are less. Figure associated with Abstract is Fig. 1

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