

Title (en)  
THREE-DIMENSIONAL IMPLEMENTATION METHOD OF MINE TUNNEL

Title (de)  
DREIDIMENSIONALES IMPLEMENTIERUNGSVERFAHREN FÜR EINEN MINENTUNNEL

Title (fr)  
PROCÉDÉ DE MISE EN UVRE TRIDIMENSIONNELLE D UNE GALERIE DE MINE

Publication  
**EP 2260471 A4 20140820 (EN)**

Application  
**EP 08873573 A 20081128**

Priority  
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Abstract (en)  
[origin: WO2009119960A1] Disclosed herein is a three-dimensional implementation method of a mine tunnel that is applied to a spatial database management system for underground facilities of a mine to three-dimensionally display the tunnel structure (direction, distribution, depth, etc.) of a mine in which mining has been performed through a monitor. The three-dimensional implementation method includes recognizing the phase relation between the mine tunnel polylines and arranging the processing sequence of the respective polylines depending upon the phase relation, and calculating the rising height of a point acquired by perpendicularly projecting the end point of a segment constituted by the respective polylines in the arranged sequence on the coal bed direction segment vector based on a coal bed angle and applying the calculated rising height to a Z-coordinate value of the end point of the segment to achieve three-dimensional implementation.

IPC 8 full level  
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Citation (search report)  
• [I] WO 2004051189 A1 20040617 - RAG AG [DE], et al  
• [A] GB 2395880 A 20040602 - VOXAR LTD [GB]  
• [A] CASTANIE L ET AL: "VolumeExplorer: Roaming Large Volumes to Couple Visualization and Data Processing for Oil and Gas Exploration", VISUALIZATION, 2005. VIS 05. IEEE MINNEAPOLIS, MN, USA OCT. 23-28, 2005, PISCATAWAY, NJ, USA, IEEE, 23 October 2005 (2005-10-23), pages 32 - 32, XP010870715, ISBN: 978-0-7803-9462-9, DOI: 10.1109/VIS.2005.134  
• See references of WO 2009119960A1

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