

Title (en)

FLYING SAW AND FIXED SAW FOR CUTTING EXTRUDED PROFILES AND METHODS OF USE

Title (de)

FLIEGENDE SÄGE UND FESTSÄGE ZUM SCHNEIDEN VON EXTRUDIERTEN PROFILEN UND VERWENDUNGSVERFAHREN

Title (fr)

SCIE VOLANTE ET SCIE FIXE POUR COUPER DES PROFILÉS EXTRUDÉS ET PROCÉDÉS D'UTILISATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2018219477A1] A flying saw for cutting extruded profiles comprises a circular saw having a saw blade¹¹ and a first saw blade drive¹⁷ for driving the saw blade to rotate for cutting, a support¹⁴ for the circular saw on which the circular saw is supported and adapted to be moved in a first direction FSH, Fin synchronisation with a movement of an extruded profile to be cut in the first direction F, a second saw blade drive^{15, 16} for driving the saw blade to move perpendicular to the first direction for cutting an extruded profile to be cut, a control¹³ for controlling the first saw blade drive, the support and the second saw blade drive which is adapted to control the rotational speed of the saw blade and the movement of the saw blade in the second direction to obtain a cutting speed resulting from the rotational speed of the saw blade and the movement of the saw blade in the second direction according to a control scheme, and a temperature sensor¹² adapted for detecting the temperature of the cutting edge of the saw blade. The control¹³ is adapted to control the obtained cutting speed using the detected temperature of the cutting edge of the saw blade to keep the temperature in a predefined temperature range by increasing or decreasing the rotational speed and/or the movement of the saw blade in the second direction. [Fig. 3]

IPC 8 full level

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Citation (search report)

See references of WO 2018219477A1

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