

Title (en)  
REUSABLE SUPPORT BEAM FOR ROOF OF CONCRETE FRAME BUILDING AND A CONCRETE FRAME BUILDING CONSTRUCTED WITH SUCH SUPPORT BEAMS

Title (de)  
WIEDERVERWENDBARER STÜTZBALKEN FÜR DAS DACH EINES BETONRAHMENGEBÄUDES UND MIT SOLCHEN STÜTZBALKEN HERGESTELLTES BETONRAHMENGEBÄUDE

Title (fr)  
POUTRE DE SUPPORT RÉUTILISABLE POUR TOIT DE BÂTIMENT À OSSATURE EN BÉTON ET BÂTIMENT À OSSATURE EN BÉTON CONSTRUIT AVEC DE TELLES POUTRES DE SUPPORT

Publication  
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Application  
**EP 23194362 A 20230830**

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BE 202205687 A 20220830

Abstract (en)  
The current invention relates to a support beam for roof support of a concrete frame building, the support beam being formed by a concrete volume extending in a longitudinal direction, having a T-shaped or I-shaped cross-section, formed by a stroke and an arm or by a stroke, a first and second arm, the support beam comprises a concrete reinforcement volume in each corner formed by respectively the stroke and the arm or the stroke and the first arm, the concrete reinforcement volumes bounded by the stroke, the arm and a sloping wall, the support beam comprising at each end and both sides of the stroke a flat recess in the sloping wall, a perforation extending parallel with the stroke from the flat recess through the arm. The invention also relates to a concrete frame building and a method for constructing it.

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CPC (source: EP)  
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Citation (search report)

- [XAI] FR 2927342 A1 20090814 - CONSEIL SERVICE INVESTISSEMENT [FR]
- [A] KR 20160137778 A 20161201 - UNIV SEOUL IND COOP FOUND [KR], et al
- [A] GB 1202214 A 19700812 - OROSCHAKOFF GEORGI [AT]
- [A] JP 2009084888 A 20090423 - TAKENAKA KOMUTEN CO

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