

Title (en)
THE SHEAR BEAM

Title (de)
TRÄGER

Title (fr)
FAUX LONGERON

Publication
EP 0884431 A1 19981216 (EN)

Application
EP 96937972 A 19961108

Priority
• CN 9600098 W 19961108
• CN 95227571 U 19951122

Abstract (en)
The present invention relates to a shear resistant beam in buildings which consists of upper and lower longitudinal reinforcements (2), diagonal tension reinforcements (4) and connecting plates (3). The tension reinforcements (4) are knotted in the form of intersection of the upper and lower longitudinal reinforcements (2). Each intersecting point is fixed by welding to form a "X"-type frame structure. Based on the required thickness, the frames are welded to a whole shear resistant beam by use of transverse straight reinforcements (1). The connecting plates 3 are welded at the ends of the shear resistant beam. The shear resistant beam and the building structure are connected through the connecting plates by bolts. The shear resistant beam is simple in fabricating technology, its rigidity, shear resistance can be increased by more than two times, and the costs can be reduced and 10 per cent of steel material can be saved. <IMAGE>

IPC 1-7
E04C 5/06

IPC 8 full level
E04C 3/20 (2006.01); **E04C 5/06** (2006.01)

CPC (source: EP)
E04C 5/0618 (2013.01)

Citation (search report)
See references of WO 9719233A1

Cited by
GR1003584B; CN112064788A; WO2018165193A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 9719233 A1 19970529; CN 2248205 Y 19970226; EP 0884431 A1 19981216; JP 2000500540 A 20000118

DOCDB simple family (application)
CN 9600098 W 19961108; CN 95227571 U 19951122; EP 96937972 A 19961108; JP 51926397 A 19961108