

Title (en)
Support guide in a continuous casting plant.

Title (de)
Stützföhrung in einer Stranggiessanlage.

Title (fr)
Support de guidage dans une installation de coulée continue.

Publication
EP 0117404 A1 19840905 (DE)

Application
EP 84100417 A 19840117

Priority
DE 3303386 A 19830202

Abstract (en)
[origin: ES8406917A1] A roller guide for use in a continuous casting installation for steel is divided into segments. Each segment includes a fixed guide member which rests on a base and a movable guide member which is supported by the fixed guide member. The guide members carry rollers which cooperate to define a path for a continuously cast steel strand. The fixed guide member has a series of hollow columns which are aligned with respective tubular elements provided on the movable guide member. Spacers for adjusting the distance between the rollers are disposed between the columns and tubular elements. A tie rod extends through each column and has a first end located externally of but adjacent to the respective column. The first end of each tie rod has a passage which registers with a corresponding passage in the base. Each pair of registering passages receives a locking pin. The locking pins connect the tie rods to the base and indirectly connect the fixed guide member to the base via the tie rods. Each tie rod has a second end located in one of the tubular elements of the movable guide member. A compression spring in each tubular element reacts against the associated tie rod and against the movable guide member thereby urging the movable guide member towards the fixed guide member. The action of the compression springs also causes the locking pins, and hence the fixed guide member, to be braced against the base. A piston-and-cylinder unit mounted inside each tubular element is arranged to act against the adjacent end face of the associated tie rod counter to the respective compression spring.

Abstract (de)
Bei einer Stützföhrung einer Stranggießanlage für Stahl mit gegenüberliegend an Kopftraversen (3) und Festtraversen (2) gelagerten Föhrungs- und Treibrollen (5, 7) ist jede Kopftraverse (3) an Stützen einer an einem Grundrahmen (1) angeordneten Festtraverse (2) durch federbelastete Zuganker (13) gehalten. Zur Schaffung einer einfachen Stützföhrung mit leicht auswechselbaren Elementen sind Druckmittelzylinder (17) zur Entlastung der Zuganker (13) diesen im Bereich der Kopftraverse (3) stirnseitig zugeordnet, wobei die Festtraverse (2) durch die Zuganker (13) am Grundrahmen (1) lösbar befestigt ist.

IPC 1-7
B22D 11/128

IPC 8 full level
B22D 11/128 (2006.01)

CPC (source: EP US)
B22D 11/1282 (2013.01 - EP US)

Citation (search report)
• DE 2740221 A1 19790308 - CONCAST AG, et al
• DE 2646388 A1 19770505 - VOEST AG
• GB 2029742 A 19800326 - VOEST ALPINE AG
• DE 2942144 A1 19810430 - SCHLOEMANN SIEMAG AG [DE]

Cited by
CN102039388A; EP0949024A1; DE19703811A1; DE19703811C2; US6234301B1; WO9832558A1; WO2010149321A1; EP2525928B2

Designated contracting state (EPC)
AT DE FR GB IT LU

DOCDB simple family (publication)
EP 0117404 A1 19840905; EP 0117404 B1 19860409; AT E19014 T1 19860415; CA 1193826 A 19850924; DE 3303386 A1 19840809; DE 3460069 D1 19860515; ES 528777 A0 19840901; ES 8406917 A1 19840901; US 4590986 A 19860527

DOCDB simple family (application)
EP 84100417 A 19840117; AT 84100417 T 19840117; CA 446517 A 19840201; DE 3303386 A 19830202; DE 3460069 T 19840117; ES 528777 A 19840110; US 57305784 A 19840123