

Title (en)

Device for starting/casting of a strand casting assembly

Title (de)

Vorrichtung zum Angiessen einer Stranggiessanlage

Title (fr)

Dispositif de démarrage de coulée d'une installation de coulée continue

Publication

**EP 2335847 B1 20130417 (DE)**

Application

**EP 09015739 A 20091218**

Priority

EP 09015739 A 20091218

Abstract (en)

[origin: EP2335847A1] The device for starting up a continuous casting plant, comprises a strand guide having mold and/or a drive- and guidance roller (11', 12'), a cold strand (22) guidable over the strand guide in the mold, and a safety device (20') for the cold strand that brings in a positive-fit interference, where the safety device has element (25) limiting the speed of the cold strand. The element is automatically coupled from the upper end of the cold strand during guiding the cold strand and/or is bringable from the interference with the cold strand. The device for starting up a continuous casting plant, comprises a strand guide having mold and/or a drive- and guidance roller (11', 12'), a cold strand (22) guidable over the strand guide in the mold, and a safety device (20') for the cold strand that brings in a positive-fit interference, where the safety device has element (25) limiting the speed of the cold strand. The element is automatically coupled from the upper end of the cold strand during guiding the cold strand and/or is bringable from the interference with the cold strand. The element is formed as a gear wheel that is connected in the type of a gear rack- or gear drive with the cold strand and is provided for exercising a brake force during exceeding a pre-determined speed delivered over the drive rollers of the cold strand. The safety device comprises autonomous, hydraulic circulation system with a pump connected with the wheel element and with a choke. The rotary variable resistor of the wheel element is increased over the circulation system and a step-up gear unit. The wheel element is bringable with a chain cold strand in grip that is guided in an arc-forming strand guide, which comprises stationary arranged guide rollers on its exit side and drive rollers adjustable radially to the cast arc on its internal side. The safety device is arranged on the internal side of the strand guide and the wheel-element is bringable radially to cast arc with the chain cold strand. The wheel element is bringable with a gear (26) of a stationary cold strand that is guided in a vertical strand guide. The vertical strand guide has guide rollers stationary arranged to a side and drive rollers adjustable to another side vertically to cast direction. The wheel element is bringable from the same side like the drive rollers with the gear. A controllable knee lever system is provided for coupling- and decoupling of the element. The safety device is adjustable according to format of the cast strand to be produced, and/or corresponding cold strand together with the drive roller relative to strand guide defined through the stationary guide rollers.

IPC 8 full level

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CPC (source: EP KR US)

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