MEDIUM-CARBON LOW-ALLOY STEEL MATERIAL, CONVEYING PIPE, PREPARATION METHOD FOR CONVEYING PIPE, AND CONCRETE PUMP TRUCK

Cross-Reference to Related Applications

The present application claims the priority right of the Chinese patent application No. 202211490716.5, entitled “MEDIUM-CARBON LOW-ALLOY STEEL MATERIAL, CONVEYING PIPE, PREPARATION METHOD FOR CONVEYING PIPE, AND CONCRETE PUMP TRUCK” filed on Nov. 25, 2022, which is incorporated herein with reference in its entirety.

Technical Field of the Invention

The present application relates to the field of engineering machinery materials, in particular, to a medium-carbon low-alloy steel material, a conveying pipe, a preparation method for the conveying pipe and a concrete pump truck.

Background Art of the Invention

A conveying pipe is a quick-wear part of concrete pump trucks and it is primarily used for conveying of concrete materials. The conveying pipe bears high-pressure and high-speed impacts of concrete during work, and it is required to have high wear resistance, good strength and impact resistance. Pipe bursting and wears are principal failure forms of the conveying pipe, which will directly affect the service life. Due to an insufficient service life, the conveying pipe is frequently replaced, which not only produces impacts on construction periods but also increases use costs, thereby influencing the competitiveness of products in the market.

The conveying pipes are mainly classified into single-layer pipes and double-layer pipes, wherein the double-layer pipes, according to different materials of inner