

Title (en)  
CONCRETE SLEEPER SYSTEM

Publication  
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Application  
**EP 87730062 A 19870606**

Priority  
DE 3619417 A 19860610

Abstract (en)  
[origin: US4802623A] Modern D.C.-tractioned trains and track circuit signal systems as well as high load trains need a special track construction. A new concrete cross sleeper system is provided for high load and high velocity tracks as well as for urban rapid transit systems comprising rails and sleepers having center part, connected to bar shaped ends and having reinforcing means. On the bar shaped ends two rail seats for each rail are positioned having elastic, electrically non-conducting plastic pads. The rails are fastened onto the rail seat by special tension means clamping the foot of the rail and fixed into plugs in the sleepers. This feature allows a triple point fixing of the rail at each sleeper end. Tracks on asphalt pavement may be secured by anchor device of the general type as sold under the trademark NELSON. The new track construction decreases the intermittent load of the rail/sleeper system and avoids trouble in track circuit signal systems existing in normally used prestressed concrete sleepers (FIG. 1).

IPC 1-7  
**E01B 1/00**; **E01B 3/32**; **E01B 9/14**; **E01B 9/68**

IPC 8 full level  
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Citation (examination)  
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