

Title (en)  
CONCRETE ANCHOR

Title (de)  
BETONANKER

Title (fr)  
ANCRAGE POUR BÉTON

Publication  
**EP 3056634 A1 20160817 (EN)**

Application  
**EP 16155332 A 20160211**

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Abstract (en)  
The invention covers an anchor system for securing an object to a work-piece such as a concrete surface. The system includes an anchor portion with a tubular member extending from an anchor head. The tubular member includes a wall and the wall including a first interior surface. The tubular member also includes a second interior surface having an enlarged diameter with respect to the first interior surface. The system further includes a support portion including a base portion and a shaft portion extending from the base portion. The shaft portion includes a first exterior surface and a second exterior surface of a greater diameter than the first exterior surface and the base portion further includes a central portion. The support portion includes a through passage. A distal end of the shaft portion is received in the interior surface of the wall and a fastener is disposed in the through passage.

IPC 8 full level  
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CPC (source: EP US)  
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Citation (search report)  
• [I] US 2014026515 A1 20140130 - ESPINOSA THOMAS M [US]  
• [A] DE 19700280 A1 19970717 - ALBANESE GIULIO [CH]  
• [A] WO 2014025760 A2 20140213 - ESPINOSA THOMAS M [US]  
• [A] US 4211048 A 19800708 - NAKA KOZABURO [JP]

Cited by  
WO2019032377A1; US10752472B2; US11180348B2; EP3414405B1

Designated contracting state (EPC)  
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