

Title (en)  
HIGH-BANDWIDTH UNDERSEA COMMUNICATION

Title (de)  
UNTERSEEISCHE KOMMUNIKATION MIT HOHER BANDBREITE

Title (fr)  
COMMUNICATION SOUS-MARINE À LARGE BANDE PASSANTE

Publication  
**EP 3304640 A1 20180411 (EN)**

Application  
**EP 16804120 A 20160527**

Priority  
• US 201562168202 P 20150529  
• US 2016034652 W 20160527

Abstract (en)  
[origin: WO2016196291A1] Described are methods, apparatuses, and networks for propagating a wireless signal in an electromagnetically-attenuating ionic solution, e.g., suitable for high bandwidth undersea communications. For example, the method may include transmitting a signal into the electromagnetically-attenuating ionic solution by applying a time-varying excitation field to the electromagnetically-attenuating ionic solution. The signal may correspond to the time-varying excitation field. The time-varying excitation field may include one or more of: an electrical component and a magnetic component. The method may include receiving at least a portion of the signal from the electromagnetically-attenuating ionic solution. The signal may be wirelessly propagated in the electromagnetically-attenuating ionic solution.

IPC 8 full level  
**H01Q 1/04** (2006.01); **H04B 13/00** (2006.01); **H04B 13/02** (2006.01)

CPC (source: EP)  
**H01Q 1/04** (2013.01); **H04B 11/00** (2013.01); **H04B 13/02** (2013.01)

Citation (search report)  
See references of WO 2016196291A1

Designated contracting state (EPC)  
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BA ME

DOCDB simple family (publication)  
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**US 2016034652 W 20160527**; AU 2016271619 A 20160527; EP 16804120 A 20160527