

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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Ericsson Inc.

Petitioner

v.

Electronics and Telecommunications Research Institute

Patent Owner

Patent No. 9,155,066  
Filing Date: May 13, 2014  
Issue Date: October 6, 2015

Title: METHOD FOR PAGING INFORMATION IN CELLULAR SYSTEM

*Inter Partes* Review No. IPR2019-00252

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**CORRECTED PETITION FOR *INTER PARTES* REVIEW  
UNDER 35 U.S.C. §§ 311-319 AND 37 C.F.R. § 42.100 *ET SEQ.***

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**Cases**

*Dow Chem. Co. v. Sumitomo Chem. Co.*,  
257 F.3d 1364 (Fed. Cir. 2001) .....18

*Phillips v. AWH Corp.*,  
415 F.3d 1303 (Fed. Cir. 2005) (en banc) .....18

**Statutes**

35 U.S.C. § 102(a) .....*passim*

35 U.S.C. § 103(a) .....34, 48, 52, 66

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**Other Authorities**

37 C.F.R. § 42.100(b) .....18

37 C.F.R. § 42.100 *et seq.* .....1

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