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(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

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hereby appoint(s) the following person as:

agent

common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

DRAPKIN, Michael L. (Reg. No. 55,127); KARREN, J. Scott (Reg. No. 58,665); WINTERTON, Kenneth C. (Reg. No. 48,040); LARSEN, Per H. (Reg. No. 61,494); SCHRAMM, Paul M. (Reg. No. 62,050); ANDERSON, Thomas D. (Reg. No. 56,293); TONKINSON, Michael S. (Reg. No. 72,574); HARRIS, Philip W. (Reg. No. 70,011); MUTTER, Nathan J. (Reg. No. 70,107); SWICKHAMER, Christopher M. (Reg. No. 59,853); BRENNAN, Devin R. (Reg. No. 72,492);
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to represent the undersigned before

all the competent International Authorities

the International Searching Authority only

the Authority specified for supplementary search only: _____
(please indicate the Authority(ies) specified for supplementary search)

the International Preliminary Examining Authority only

in connection with any and all international applications filed by the undersigned with the following Office:

United States Patent and Trademark Office (USPTO) as receiving Office
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Signature(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):



Raymond B. Hom
V.P., Patent Counsel
Qualcomm Incorporated

Date:

22 Jan 2019