UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Intel Corporation Petitioner,

v.

ParkerVision, Inc. Patent Owner

Case No. IPR2020-01265 Patent No. 7,110,444

PETITIONER'S ORAL HEARING DEMONSTRATIVES

DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>. United States Patent and Trademark Office Before the Patent Trial and Appeal Board

Intel Corporation, Petitioner, v. ParkerVision, Inc., Patent Owner.

IPR2020-01265

Petition for Inter Partes Review of U.S. Patent No. 7, 110

November 1,2021

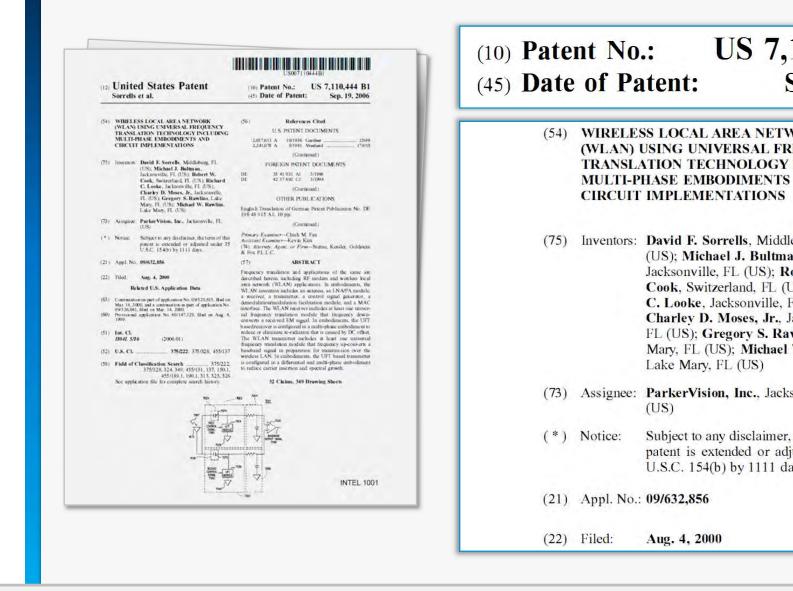
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The '444 Patent

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Technology Background: Up-Conversion

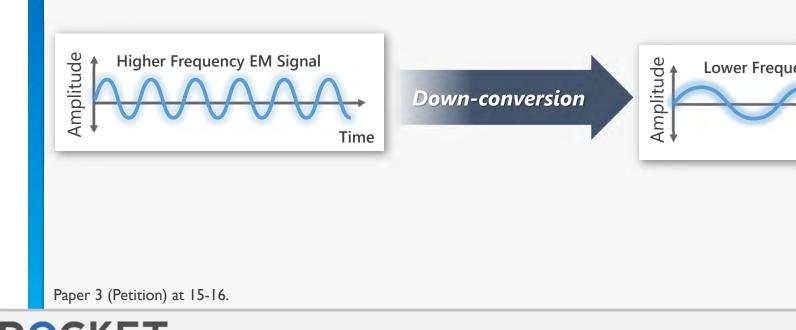
- Wireless devices communicate with each oth transmitting and receiving electromagnetic (E signals.
- Before transmission, information exists as a lo frequency "baseband signal," which is shifted the higher frequency "radio frequency" or "RF" signal
- Shifting a signal from a lower frequency to a h frequency is called "up-conversion."

Paper 3 (Petition) at 10-16.



Technology Background: Down-Conversion

- Received RF signals are shifted back down to frequency to process the received informatio
- Shifting a signal from a higher frequency to a frequency is called "down-conversion."



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