

EXHIBIT 19-6

EXHIBIT 5



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(54) **WIRELESS AND WIRED CABLE MODEM APPLICATIONS OF UNIVERSAL FREQUENCY TRANSLATION TECHNOLOGY**

(75) Inventors: **David F. Sorrells**, Middleburg, FL (US); **Michael J. Bultman**, Jacksonville, FL (US); **Robert W. Cook**, Switzerland, FL (US); **Richard C. Looke**, Jacksonville, FL (US); **Charley D. Moses, Jr.**, Jacksonville, FL (US)

(73) Assignee: **ParkerVision, Inc.**, Jacksonville, FL (US)

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 See application file for complete search history.

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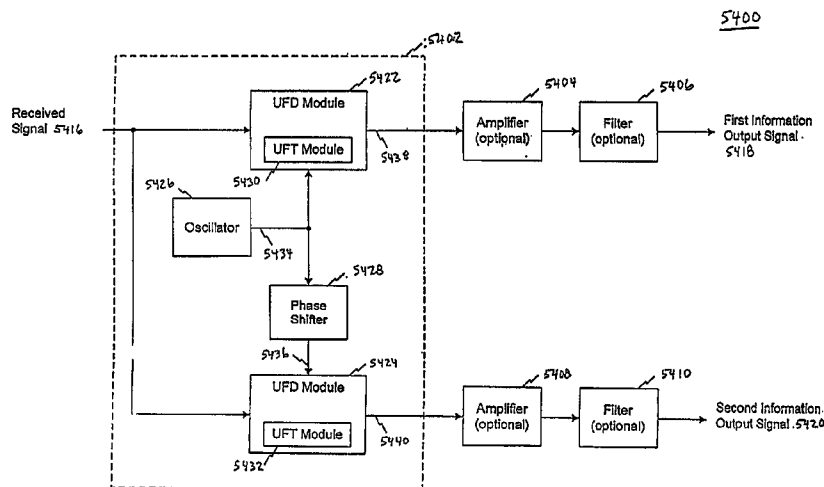
Primary Examiner—Pablo N. Tran

(74) *Attorney, Agent, or Firm*—Sterne, Kessler, Goldstein & Fox P.L.L.C.

(57) **ABSTRACT**

Frequency translation and applications of same are described herein, including cable modem applications. Such applications include, but are not limited to, frequency down-conversion, frequency up-conversion, enhanced signal reception, unified down-conversion and filtering, and combinations and applications of same. Furthermore, QAM, QPSK, and other modulation techniques are also described.

21 Claims, 77 Drawing Sheets



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