

EXHIBIT 5

IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TEXAS
WACO DIVISION

PARKERVISION, INC.,

Plaintiff,

v.

TCL INDUSTRIES HOLDINGS CO.,
LTD., TCL ELECTRONICS HOLDINGS
LTD., SHENZHEN TCL NEW
TECHNOLOGY CO., LTD., TCL KING
ELECTRICAL APPLIANCES
(HUIZHOU) CO., LTD., TCL MOKA
INT'L LTD., and TCL MOKA
MANUFACTURING S.A. DE C.V.,

HISENSE CO., LTD. and HISENSE
VISUAL TECHNOLOGY CO., LTD. (F/K/A
QINGDAO HISENSE ELECTRONICS CO.),
LTD. and HISENSE ELECTRIC CO., LTD.

Defendants.

Case No. 6:20-cv-00945-ADA

Case No. 6:20-cv-00870-ADA

JURY TRIAL DEMANDED

DECLARATION OF DR. MICHAEL STEER

I have personal knowledge of the facts set forth in this Declaration and, if called to testify as a witness, would testify under oath:

I. BACKGROUND

1. I have been retained as an expert on behalf of ParkerVision, Inc. (“ParkerVision”) in the above-captioned litigation action against Defendants TCL Industries Holdings Co., Ltd., TCL Electronics Holdings Ltd., Shenzhen TCL New Technology Co., Ltd., TCL King Electrical Appliances (Huizhou) Co., Ltd., TCL Moka Int’l Ltd., and Moka Manufacturing S.A. De C.V. (collectively “TCL”) and Defendants Hisense Co., Ltd. and Hisense Visual Technology Co., Ltd. (f/k/a Qingdao Hisense Electronics Co., Ltd. and Hisense Electric Co., Ltd.) (collectively “Hisense”) (TCL and Hisense are collectively referred to as “Defendants”).

2. I understand that ParkerVision asserts the following patents against Defendants: U.S. Patent Nos. 6,049,706 (the “’706 patent”); 6,266,518 (the “’518 patent”); 6,580,902 (the “’902 patent”); 7,110,444 (the “’444 patent”); 7,292,835 (the “’835 patent”); 8,588,725 (the “’725 patent”); 8,660,513 (the “’513 patent”); 9,118,528 (the “’528 patent”); 9,246,736 (the “’736 patent”); and 9,444,673 (the “’673 patent”) (collectively, the “patents-in-suit”).

3. I have been asked by ParkerVision to provide my opinions regarding the ’706 patent, ’736 patent, and ’673 patent. In particular, I have been asked to provide my opinions on certain technical aspects relating to the ’706, ’736, and ’673 patents, and indefiniteness under 35 U.S.C. § 112.

4. In forming my opinions, I have reviewed and considered the materials identified in this declaration, including the patents-in-suit and file histories. I have also reviewed the parties’ proposed claim constructions as well as Defendants’ Opening Claim Construction Brief and the Declaration of Matthew B. Shoemake.

5. I am currently the Lampe Distinguished Professor Emeritus of Electrical and Computer Engineering at North Carolina State University.

6. I received my Bachelor of Engineering with Honors (B.E. Hons) and Ph.D. in Electrical Engineering from the University of Queensland, Brisbane, Australia, in 1976 and 1983 respectively.

7. I was a pioneer in the modeling and simulation of nonlinear radio frequency and microwave circuits. To put this in perspective, the first commercial cellular phone became available in 1983, and in that same year, I began teaching classes in radio frequency design. Specifically, I joined the Electrical Engineering Department at North Carolina State University, Raleigh, North Carolina, as a Visiting Assistant Professor in August 1983. I became an Assistant Professor in 1986 when the department was renamed the Department of Electrical and Computer Engineering. I have been promoted throughout the years, first becoming an Associate Professor in 1991, a Professor in 1996, a Named Professor in 2005, and a Distinguished Professor in 2010.

8. During the 1990s, I began working very closely with the U.S. Department of Defense, and in particular with the U.S. Army, on radio frequency communications and advanced radio frequency circuits. Between 1996 and 1998, I also worked as a consultant for Zeevo, Inc., a Silicon Valley-based provider of semiconductor and software solutions for wireless communications.

9. In 1999, I moved to the United Kingdom to become Professor and Director of the Institute of Microwaves and Photonics at the University of Leeds, one of the largest university-based academic radio frequency research groups in Europe. I held the Chair in Microwave and Millimetrewave Electronics. I also continued my work with the U.S. Army and worked with the European Office of the U.S. Army Research Office. I returned to the United States in 2000,

resuming the position of Professor of Electrical and Computer Engineering at North Carolina State University.

10. Further details on various aspects of my professional experience and qualifications can be found in my curriculum vitae, which is attached hereto as Appendix A.

11. Based on my experience in the wireless communications industry, I have a detailed understanding of radio frequency circuit design, including the radio frequency front end of cellular phones.

II. RELEVANT LEGAL PRINCIPLES

A. Level of Ordinary Skill in the Art

12. I have been informed and understand that claims are construed from the perspective of a person of ordinary skill in the art (“POSITA”) at the time of the claimed invention.

13. In my opinion, a POSITA with respect to the ’706, ’736 and ’673 patents would have (i) a Bachelor of Science degree in electrical or computer engineering (or a related academic field), and at least two (2) additional years of experience in the design and development of radio frequency circuits and/or systems, or (ii) at least five (5) years of experience and training in the design and development of radio frequency circuits and/or systems.

14. In view of my qualifications, experience, and understanding of the subject matter of the invention, I believe that I meet the above-mentioned criteria and consider myself a person with at least ordinary skill in the art pertaining to the ’706, ’736 and ’673 patents.

15. I disagree with Dr. Shoemake’s description of a POSITA because the claims being construed relate specifically to RF circuit design. It is therefore my opinion that a POSITA must have knowledge and experience within the relevant field, and in particular with the analysis and design of RF circuits. Dr. Shoemake opines, however, that a POSITA “would have been someone

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