

*Roku, Inc. v. Universal Electronics Inc.*

**IPR2019-01615 (USPN 9,716,853)**

Oral Hearing, January 25, 2021  
Judges Boucher, Chung, and Fenick

***Patent Owner's Oral Hearing Demonstratives***

DEMONSTRATIVE EXHIBIT– NOT EVIDENCE

Greenberg Traurig, LLP

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## The Inventions Of The Challenged Claims

- The Challenged Claims of the '853 patent: Independent claim 1 and dependent claims 3, 5, and 7 (“Claims”).
- The Claims generally recite “a modular hardware and software solution, [ ] referred to as a Universal Control Engine (UCE), which is adapted to provide device control access across a variety of available control methodologies and communication media.” (‘853 patent, EX1001, at 2:4-10.)
- The UCE is programmed to respond to the detected presence of a target appliance by using an identity associated with the target appliance to create a “listing” comprised of multiple communication methods for use in controlling multiple functions of the target appliance. (*Id.* at claim 1.)

# The Inventions Of The Challenged Claims

- Independent Claim 1 expressly requires that:
  - the UCE creates a listing in response to the UCE detecting the presence of an intended target appliance (“Response Limitation”);
  - the UCE uses an identity associated with the intended target appliance detected by the UCE to create the listing (“Identity Limitation”);
  - the created listing comprises at least two different communication methods (“Communication Methods Limitation”); and
  - the at least two different communication methods in the listing control the at least two functional operations of the intended target appliance (“Functional Operations Limitation”).

# The Inventions Of The Challenged Claims

- An example of the created “listing” is shown in Figure 7:

Function	Appliance					
	TV	AVR	STB/DVR	DVD	CD	Etc....
Power on	CEC	CEC	CEC	CEC	IR	
Power off	CEC	CEC	CEC	CEC	IR	
Volume up	IR	CEC	n/a	n/a	n/a	
Volume down	IR	CEC	n/a	n/a	n/a	
Mute	IR	CEC	n/a	n/a	n/a	
Play	n/a	n/a	CEC	CEC	IR	
Pause	n/a	n/a	CEC	CEC	IR	
FF	n/a	n/a	CEC	CEC	IR	
Rew	n/a	n/a	CEC	CEC	IR	
Sound field A	CEC	IP	IP	n/a	n/a	
Sound field B	CEC	IP	IP	n/a	n/a	
Input 1	CEC	IR	n/a	n/a	n/a	
Input 2	CEC	IR	n/a	n/a	n/a	
Etc....						

(‘853 patent, EX1001, at FIG. 7.)

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