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BEFORE THE PATENT TRIAL AND APPEAL BOARD

ROKU, INC.,
Petitioner,

v.

UNIVERSAL ELECTRONICS, INC.,
Patent Owner.

Case No. IPR2020-01012
U.S. Patent 7,589,642

DECLARATION OF DR. SAMUEL H. RUSS

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B. Mishra in view of Dubil discloses Embodiment 154

C. Independent Claim 159

1. [1.P] “A method comprising:”59

2. [1.1] “receiving a keystroke indicator signal from a remote control device, wherein the keystroke indicator signal indicates a key on said remote control device that a user has selected;”61

3. [1.2] “generating a key code within a key code generator device using the keystroke indicator signal;”62

4. [1.3] “modulating said key code onto a carrier signal, thereby generating a key code signal; and”65

5. [1.4] “transmitting said key code signal from said key code generator device to said remote control device.”67

D. Claim 369

1. “The method of claim 1, wherein said key code consists of a binary number.”69

E. Claim 470

1. “The method of claim 1, wherein said key code comprises a binary number and timing information, and wherein said timing information defines how said binary number is modulated in (c) onto said carrier signal.”70

F. Claim 675

1. [6.P] “The method of claim 1, wherein said carrier signal is in a radio frequency band, wherein said key code signal is received by said remote control device, and wherein said method further comprises:”75

2. [6.1] “modulating said key code onto a second carrier signal, thereby generating a second key code signal, said modulating being performed on said remote control device wherein said second carrier signal is in an infrared frequency band; and”76

3. [6.2] “transmitting said second key code signal from said remote control device to an electronic consumer device.”79

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