

EXHIBIT E

EXHIBIT 3: KNOWLEDGE OF A POSITA CONCERNING FEATURES OF DISPLAY REMOTE CONTROL SYSTEMS

Green cells indicate features disclosed in the reference in column B

References indicated in pink disclose all four features

YEAR	REFERENCE	Three-Part Architecture	Synchronization Code	Media Players	Command Conversion	NUMBER OF CONCEPTS DISCLOSED	
2000	Lemmons					1	
2000	Morelli					3	
2000	Hayward					2	
2001	Shapiro					2	
2002	Capps					1	
2002	Calvert					1	
2002	Elabbady					1	
2002	Chen					2	
2002	Kaowthumrong					2	
2003	Olsson					2	
2003	Kryeziu					1	
2005	Black					2	
2005	James					4	
2005	Mohanty					3	
2006	Sung					3	
2006	Nadalin					1	
2006	Hayes					3	
2006	Lo					2	
2006	Joon-Ho Cho					3	
2007	Olague					2	
2007	Jana					4	
2007	Cannistraro					2	
2007	Aldrey					4	
2008	Klein					4	
2008	Flynn					2	
2008	Sukeda					3	
2008	Yin					2	
2009	Hurst					1	
2009	Muthukumarasamy					4	
2009	Harris					4	
2009	Sela					1	
2009	Livingston					4	
2010	Redford					4	
2010	Morris 677					2	
2010	McMahon Patent					4	
2010	Maddali					1	
2010	Danciu					4	
2010	Agnihotri					4	
2010	Xfinity TV Remote App					4	
2011	Birkler					4	
2011	Dasher					3	
	NUMBER OF REFERENCES DISCLOSING THE CONCEPT	29	29	26	22	13	NUMBER DISCLOSING ALL 4 CONCEPTS
	TOTAL NUMBER OF REFERENCES	41					