

## Satellite-UHDTV Essential Patent Portfolio

January 1, 2022

### **Dolby International AB**

JP5562408

### **Fujitsu Limited**

JP4603570

JP4791521

JP5129834

### **INFOCITY, Inc.**

JP4302537

JP5247097

### **INFOCITY, Inc. / Nippon Hoso Kyokai**

JP6789553

### **InterDigital CE Patent Holdings, SAS**

JP5877065

JP6176871

### **JVCKENWOOD Corporation**

JP4620788

### **LG Electronics Inc.**

JP4806702

JP6097399

### **Maxell, Ltd.**

JP4613212

JP4625757

JP4625764

JP4625870

JP4654309

JP4871992

JP4901993

JP5002699

**Maxell, Ltd.**

JP5017474

JP5050122

JP5050129

JP5095022

JP5188634

JP5372383

JP5380614

JP5413534

JP5450875

JP5450876

JP5522644

JP5695150

JP5947411

JP6222714

JP6222781

JP6222782

JP6283145

JP6283146

JP6305601

JP6317534

JP6317861

JP6355964

JP6378137

JP6382158

JP6396560

JP6405492

JP6405493

JP6412288

JP6412289

JP6441247

**Maxell, Ltd.**

JP6462927

JP6466987

JP6469275

JP6522208

JP6523524

JP6533023

JP6548845

JP6553788

JP6616212

JP6645869

JP6645871

JP6652672

JP6668550

JP6671530

JP6710346

JP6711961

JP6721804

JP6722333

JP6725637

JP6726341

JP6726372

JP6753973

JP6782797

JP6835989

JP6866407

**Mitsubishi Electric Corporation**

JP5984911

JP6022060

JP6218896

JP6381724

**Mitsubishi Electric Corporation**

JP6391500

JP6573689

JP6615287

JP6641344

JP6825075

**NEC Corporation**

JP4045805

JP4051968

JP4973790

JP5682181

JP6132006

JP6241558

JP6241565

JP6264501

JP6290851

JP6290852

JP6317316

JP6317317

JP6434600

JP6475372

JP6475373

JP6475374

JP6483877

JP6489203

JP6606258

JP6606259

JP6606260

JP6609023

JP6617809

**Nippon Hoso Kyokai**

JP3816397

JP4688841

JP4814768

JP4814809

JP4839385

JP4839386

JP4854496

JP4866319

JP4880715

JP5017463

JP5053357

JP5188609

JP5544395

JP5548726

JP5584729

JP5584730

JP5586657

JP5586658

JP6123016

JP6126583

JP6208391

JP6211551

JP6214809

JP6214810

JP6214811

JP6228700

JP6228701

JP6234152

JP6235753

JP6271065

**Nippon Hoso Kyokai**

JP6271066

JP6275308

JP6275319

JP6278582

JP6288896

JP6288897

JP6366070

JP6382664

JP6399725

JP6399726

JP6416698

JP6444015

JP6444016

JP6448044

JP6465476

JP6465532

JP6478153

JP6539209

JP6539210

JP6566592

JP6600428

JP6600429

JP6611402

JP6775075

**Orange SA**

JP4391412

**Panasonic Corporation**

JP4920004

JP5336003

**Panasonic Corporation**

JP5336004

JP5336010

JP5336011

JP5336012

JP5336013

JP5788622

JP5909026

JP5945838

JP6026599

JP6195094

JP6268066

JP6271074

JP6280182

JP6300114

JP6300116

JP6300134

JP6300135

JP6313170

JP6352820

JP6369773

JP6377598

JP6382029

JP6480620

JP6502096

JP6505413

JP6506009

JP6538324

JP6560469

JP6571314

JP6572353

**Panasonic Corporation**

JP6605789

JP6606125

JP6606529

JP6636571

JP6649522

JP6652320

JP6655803

JP6665331

JP6667128

JP6692057

JP6765802

**Samsung Electronics Co., Ltd.**

JP5512038

JP5860158

JP5883199

JP5897603

JP5947454

JP5947455

JP6105711

JP6122523

JP6122982

JP6122986

JP6258856

JP6310111

JP6339501

JP6346329

JP6359142

JP6377605

JP6419235

JP6426259



**Samsung Electronics Co., Ltd.**

JP6426260

JP6437953

JP6501951

JP6561067

JP6591648

JP6604640

JP6606240

JP6632749

JP6643402

JP6643431

JP6665126

JP6665127

JP6744458

JP6744459

JP6797988

JP6803936

JP6843714

**Sharp Corporation**

JP4838191

JP5661206

JP5860518

JP5957050

JP5957156

JP5957161

JP6095756

JP6126675

JP6137754

JP6137755

JP6140381

JP6175207

**Sharp Corporation**

JP6175208

JP6181897

JP6181898

JP6238086

JP6251834

JP6251835

JP6279063

JP6279140

JP6309061

JP6363745

JP6374053

JP6374054

JP6452254

**SK planet co., Ltd.**

JP5726801

**Sony Group Corporation**

JP5516826

JP5595590

JP5641090

JP5672406

JP5672407

JP5672409

JP5672410

JP5672411

JP5696913

JP5696914

JP5696915

JP5708866

JP5708874

**Sony Group Corporation**

JP5708875

JP5708876

JP5708877

JP5713140

JP5713141

JP5713142

JP5725235

JP5725242

JP5725249

JP5725250

JP5725252

JP5725253

JP5725390

JP5725391

JP5725392

JP5754491

JP5757601

JP5765478

JP5765479

JP5765480

JP5777793

JP5777794

JP5836424

JP5886341

JP5947269

JP5949825

JP5954508

JP5954509

JP5961317

JP5966075

**Sony Group Corporation**

JP5971442

JP5971443

JP5971444

JP5976188

JP6003992

JP6004132

JP6004133

JP6024854

JP6038379

JP6038380

JP6038381

JP6052354

JP6057013

JP6065881

JP6137399

JP6137400

JP6207673

JP6217779

JP6222281

JP6256529

JP6265285

JP6269798

JP6303969

JP6304016

JP6323518

JP6323519

JP6323534

JP6323535

JP6323536

JP6327296

**Sony Group Corporation**

JP6338720

JP6350514

JP6369524

JP6406415

JP6406416

JP6418162

JP6442897

JP6442944

JP6465233

JP6493214

JP6519586

JP6551558

JP6558246

JP6558366

JP6569793

JP6590043

JP6604395

JP6607303

JP6614279

JP6617845

JP6645439

JP6648811

JP6658726

JP6658819

JP6658944

JP6699790

JP6702300

JP6768209

JP6773205

JP6795076

**Sony Group Corporation**

JP6798585

JP6950802

**Sony Group Corporation / Nippon Hoso Kyokai**

JP4855348

JP4856608

**Toshiba Corporation**

JP3971346

JP4346471

JP4350714

JP4843686

JP5032419

JP5143050

JP5254411

JP5379881

JP5479631

JP5487135

JP5735069

JP5902279

JP5902280

JP5921398

JP6009946

JP6054324

JP6073664

JP6239674

JP6271203

JP6290021

JP6290127

JP6400783

JP6517905

**Toshiba Corporation / TVS REGZA Corporation**

JP4542914

JP5225324

**TVS REGZA Corporation**

JP4595006

JP6224206

JP6224207

JP6224208

JP6224209

JP6224210

JP6224211

JP6224212

JP6224213

JP6224214

JP6224215

JP6290486

JP6316526

JP6316527

JP6359609

JP6359610

JP6359611

JP6359612

JP6359613

JP6359614

JP6359615

JP6359616

JP6359617

JP6359618

JP6382464

JP6431109

JP6431110

**TVS REGZA Corporation**

JP6431223

JP6431224

JP6438095

JP6438096

JP6438097

JP6438098

JP6462813

JP6462814

JP6462815

JP6462816

JP6462817

JP6462818

JP6469799

JP6469800

JP6469801

JP6469802

JP6469803

JP6469804

JP6469805

JP6469806

JP6479905

JP6480029

JP6480030

JP6480031

JP6480032

JP6480033

JP6480034

JP6480035

JP6480036

JP6483868



**TVS REGZA Corporation**

JP6483869

JP6483870

JP6483871

JP6484736

JP6506240

JP6507296

JP6510089

JP6510090

JP6510091

JP6515211

JP6515212

JP6515213

JP6515214

JP6522808

JP6522809

JP6522810

JP6522811

JP6526892

JP6530292

JP6546900

JP6560658

JP6560659

JP6560660

JP6560661

JP6607843

JP6607844

JP6607845

JP6609585

JP6611318

JP6611403

**TVS REGZA Corporation**

JP6629714

JP6629931

JP6633507

JP6633804

JP6633805

JP6633806

JP6633807

JP6633808

JP6633809

JP6633810

JP6633811

JP6634399

JP6637531

JP6637532

JP6659786

JP6676677

JP6676678

JP6676679

JP6679793

JP6679794

JP6686219

JP6686220

JP6697492

JP6703176

JP6705844

JP6713572

JP6724073

JP6728437

JP6732991

JP6732992

**TVS REGZA Corporation**

JP6734983

JP6734984

JP6789806

JP6789808

JP6866453

JP6929998

**INFOCITY, Inc.**

JP3759720 \* Expired May 13, 2017

**InterDigital CE Patent Holdings, SAS**

JP4331765 \* Expired March 6, 2018  
JP4531259 \* Expired September 24, 2019  
JP4729176 \* Expired October 8, 2019  
JP5005868 \* Expired January 3, 2021

**JVCKENWOOD Corporation**

JP3405347 \* Expired January 24, 2020  
JP3405348 \* Expired January 24, 2020  
JP3422458 \* Expired July 11, 2017  
JP4269506 \* Expired September 29, 2020  
JP4743237 \* Expired September 29, 2020  
JP5214039 \* Expired September 29, 2020

**JVCKENWOOD Corporation / Panasonic Corporation**

JP3405344 \* Expired January 24, 2020

**MASPRO DENKOH CORP.**

JP3431579 \* Expired June 13, 2020

**Maxell, Ltd.**

JP4300190 \* Expired July 31, 2017  
JP4613256 \* Expired January 22, 2021

**Mitsubishi Electric Corporation**

JP3301055 \* Expired March 29, 2016  
JP3468115 \* Expired August 4, 2018  
JP3505378 \* Expired January 29, 2018  
JP4697369 \* Expired July 12, 2021

**NEC Corporation**

JP3332072	* Expired April 9, 2018
JP3531604	* Expired November 24, 2020
JP3832321	* Expired November 20, 2021

**Panasonic Corporation**

JP3108392	* Expired October 1, 2017
JP3523643	* Expired March 27, 2018

**The Trustees of Columbia University in the City of New York**

JP4393591	* Expired February 13, 2018
-----------	-----------------------------

**Toshiba Corporation / TVS REGZA Corporation**

JP3474510	* Expired February 29, 2020
JP3663149	* Expired May 21, 2021