

TESSELLATE

CHUCK HOBERMAN

DESCRIPTION:

TESSELLATE'S CONTINUALLY SHIFTING AND EVOLVING PATTERNS ARE DRIVEN BY ROTATIONALLY TRANSLATING MULTIPLE PERFORATED STEEL PANELS. AS THESE PATTERNS ALIGN AND DIVERGE, THE VISUAL EFFECT IS OF SPARSE GEOMETRIC PATTERNS - HEXAGONS, CIRCLES, SQUARES, AND TRIANGLES - THAT BLOSSOM INTO AN OPAQUE, LIGHT-DIFFUSING MESH. THE RESULT IS A KINETIC SURFACE THAT SPANS 38 SQUARE METERS AND IMBUES THE BUILDING WITH THE FUNCTIONAL CAPACITY TO DYNAMICALLY CHANGE ITS OPACITY AND SCULPT THE QUALITY OF LIGHT AND SHADOWS WITHIN - DEMONSTRATING NEW TECHNOLOGIES FOR ADAPTIVE BUILDING FAÇADES THAT ENABLE BUILDINGS TO PHYSICALLY TRANSFORM AND RESPOND TO ENVIRONMENTAL CHANGES IN REAL TIME.

US & INTERNATIONAL PATENTS PENDING
FABRICATED BY A. ZAHNER CO.

TRANSFORMING GATE

CHUCK HOBERMAN

DESCRIPTION:

WHERE CONVENTIONAL ART GATES ARE DESIGNED AS TWO-DIMENSIONAL ARTWORKS THAT ARE ONLY COMPLETE WHEN CLOSED, HOBERMAN'S GATE RESOLVES ITS OPEN AND CLOSED STATES INTO TWO DISTINCT DIMENSIONALITIES AND WAS DESIGNED BEGINNING WITH ITS OPEN FORM. PARAMETRICALLY GENERATED BY THE PLANAR SLICING OF A TWISTED CUBIC GEOMETRY, THE STACKED FORM CREATES TWISTING, OPEN VOLUMES - A PLAY ON POSITIVE AND NEGATIVE SPACE - WITH DYNAMIC SIGHT LINES THAT CHANGE AS VISITORS WALK AROUND IT. WHEN CLOSED, ITS LAYERS UNFOLD TO CREATE AN UNDULATING FIELD OF CURVED, INTERSECTING LINES.

FABRICATED BY A. ZAHNER CO.

BLUE UNIVERSE 243 AND RED UNIVERSE 243

SCOTT DRAVES AND THE ELECTRIC SHEEP, 2010

DESCRIPTION:

21:34 AND 20:40 MINUTE 720P VIDEO LOOPS. EDITION 3/4 AND 2/4.

PORTRAITS OF PHYSICISTS

MIRIAM CAROTHERS

DESCRIPTION:

19 PRINTS. 20"X 30".

PHYSICISTS PORTRAYED (FROM LEFT TO RIGHT):

MACHIKO HATSUDA, MARTIN ROCEK, LUCA MAZZUCATO, JONATHAN HECKMAN, JUAN MALDACENA, MINA AGANAGIC

PORTRAITS OF PHYSICISTS

MIRIAM CAROTHERS

DESCRIPTION:

19 PRINTS. 20"X 30".

PHYSICISTS PORTRAYED (FROM LEFT TO RIGHT):

MICHAEL DOUGLAS, CUMRUN VAFA, SERGEI GUKOV, C.N. YANG, NIKITA NEKRASOV,
ALEXANDER POLYAKOV, FREDERIK DENEF

PORTRAITS OF PHYSICISTS

MIRIAM CAROTHERS

DESCRIPTION:

19 PRINTS. 20"X 30".

PHYSICISTS PORTRAYED (FROM LEFT TO RIGHT):

SERGIO CECOTTI, JIHYE SEO, LEONARDO RASTELLI, HIROSI OOGURI, DOMENICO ORLANDO, SUSANNE REFFERT

DOUBLE TORUS STONEHENGE

HELAMAN FERGUSON

DESCRIPTION:

28 SILICON BRONZES. (6"x 32"x 32"). 1990

THE MAGIC BOXES

HOUDINI COLLECTIVE

DESCRIPTION:

ACRYLIC AND METAL. VARIOUS DIMENSIONS. 2011

THE BIG X

PI (ANDREW LOGAN)

DESCRIPTION:

BRONZE SCULPTURE. 2011.

SPIDER IN ALEPH 0

LYDIA NESTOR

DESCRIPTION:

SCULPTURE. 2011.

ONE IDEA COMING UP

PETER NICKS

DESCRIPTION:

BRONZE SCULPTURE. 2011.

SPINAL CUTTLE CUTTER

ROBERT MICHAEL SMITH

DESCRIPTION:

STAINLESS STEEL. 19"x36"x21".

BLACK APPLES

KIKI SMITH

DESCRIPTION:

BRONZE. 38 UNITS RANGING IN SIZE FROM 2 1/2" X 1" TO 3 1/2" X 4"

SPIDER RULER OF THE UNIVERSE

JI CHOI

DESCRIPTION:

SCULPTURE. 2011.

BLUE

TATJANA BUSCH, WITH MUSIC COMPOSED BY WOLFGANG SCHMID-GRANDY

DESCRIPTION:

ALUMINUM SCULPTURE. 2011.

ICONIC WALL

CONCEPT: NINA DOUGLAS

DESIGN: NINA DOUGLAS, TONY PHILLIPS

**GRAPHICS: KRISTINA STOYANOVA, KAOLIAN PETKOV, CHARILAOS
PAPADOPOULOS**

SCIENTIFIC INPUT FROM SCGP, SBU MATH AND PHYSICS DEPARTMENTS

DESCRIPTION:

20' x 24' WALL. PRINTED BY PAUL ST. DENIS, SBU TLT MEDIA LAB.
2010-2011.