

ABSTRACT

MECHANICAL JOINT, JOINT-EQUIPPED STEEL PIPE, METHOD FOR
MANUFACTURING JOINT-EQUIPPED STEEL PIPE, STRUCTURE, METHOD
5 FOR INSTALLING STRUCTURE, AND A METHOD FOR DESIGNING
MECHANICAL JOINT

The object is to provide a mechanical joint, a joint-
equipped steel pipe, a method for manufacturing a joint-
10 equipped steel pipe, a structure, a method for installing a
structure, and a method for designing a mechanical joint
that reduce a push-in load required for fitting to improve
installability without bringing about an increase in
processing costs and a reduction in strength. A mechanical
15 joint 1 includes an inner joint pipe 5 and an outer joint
pipe 7, in which either the inner joint pipe 5 or the outer
joint pipe 7 includes split pieces 11 split at regular
intervals in a circumferential direction and capable of
bending in a radial direction, a protrusion 13 formed on an
20 outer circumferential face of the inner joint pipe 5, an
engagement part 17 formed on an inner circumferential face
of the outer joint pipe 7 and being engaged with the
protrusion 13, and an inclined face 19 provided in the
outer joint pipe 7 closer to a tip than the engagement part
25 17 is and making contact with the protrusion 13 to bend the
split pieces 11 in cooperation with the protrusions 13.
The inclined face 19 is provided continuously from an end
of the outer joint pipe 7 to the engagement part 17.

30 (FIG. 1)