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(54) Title: WEDGETHREAD PIPE CONNECTION

(57) Abstract: A high strength Wedgethread Pipe Connection having a ratio of the radius change per turn to the thread width change per turn, so as to maintain both a thread seal and tightness, even when the connection is subjected to transient service loads such as vibrations, shock, bending, tension, compression, torsion and/or thermal changes. The thread form may be Open or Trapped for use on large or small diameter pipe, configured such as: a flush joint; with collars of larger diameter than the pipe; with double-pin couplings; tool and accessory connections; or it may also be used to reversible connect such as solid structural posts to base members where a wide range or repeatable makeup torque is desired. The threads have provisions for ease of manufacture and assembly, and to minimize handling damage. The connection has a very high torque capacity without need for shoulders, and it can be repeatedly "spun-up" and tightened over a wide torque range, without significant change in the final makeup position. The connection has a very high tension, compression and bending strength, relative to the pipe. The connection may be furnished in high strength configurations such as integral flush joints, near-flush, box couplings, double pin couplings, and even as structural post connections. Thread dope requirements for use with a given connection are included.