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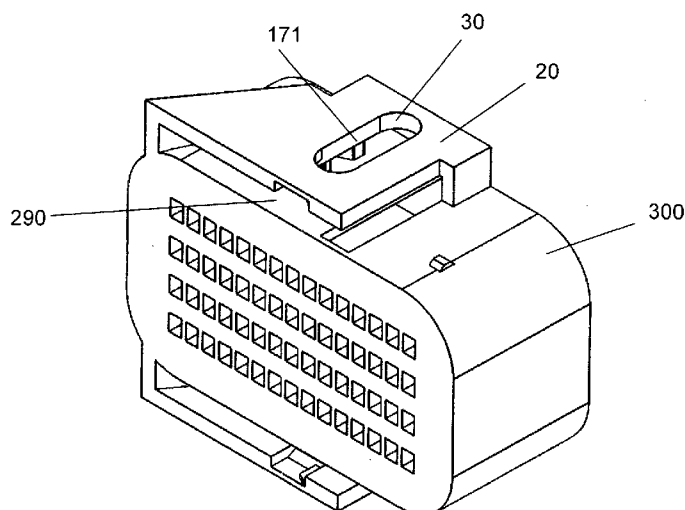
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(54) Title: DUAL-MOTION MATING ASSISTED CONNECTOR



(57) Abstract: A dual-motion mating assisted connector (100) comprises a first housing (300), a second housing (400) and a lever having one cam arm or a bridge (80) linking to two cam arms at the end thereof, and the cam arm having two engaging features selected from the group consisting of a pinion with multiple teeth, a boss engaging side slot, and a boss engaging front or back slot. The cam arm is provided with a pivoting post, and the pinions engage with the teeth of the engaging rack, or the side slot engages with the single engaging boss on the housing which is side offset from the post slot, or the front or back slot engages with the single engaging boss on the housing which is front or back offset from the post slot, and the lever assists the mating and un-mating of the first and the second housing of the connector by allowing the pivoting post of the lever to slide within the guiding slot on the first housing, as the lever is rotated from an initial connector mating position to a final connector mating position.

