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Aluminum die casting provides a means for manufacturing components with complex shapes at high production rates. The process involves injecting aluminum alloy into a metal die by high pressure and at high temperatures. The injected metal is pressed into a desired shape, and a steel plunger is used to push the metal through the die. Once in the die, the metal is cooled and solidified. As shown in FIG. 1, to build an aluminum die, aluminum 10, called the "ingot," is first cut to size. For example, to build a door frame for a vehicle, ingot 10 is cut into two blanks 12 and 14. Blanks 12 and 14 are then formed into desired shapes and combined. A typical vehicle door frame requires a pair of frames 20, formed by turning two blanks 12 and 14 into a shape as shown in FIG. 2. Frames 20 are then combined to form an outer frame 22 and an inner frame 24 as shown in FIG. 3. In the last step, an engine block is secured to the outer frame 22, and a door 26 is mounted onto the inner frame 24. The press forming of aluminum allows the most economical production of parts of complex shapes at high rates. However, aluminum is relatively soft and easily forms into "gate" defects when the press forms a part. A gate defect is a recessed area or depression within a formed part that appears when metal flows from the gates of the die. When two frames are combined to form a door frame, the combined frame is open at both ends. The open ends of the frames provide locations where metal can flow from the gates of the press forming die, creating gate defects in the final formed door frame. As a result, the two frames must be removed from the formed door frame and the open ends be hand belled or cut off with a band saw or other means. The opening of the frames makes the framed door relatively large compared to the frame-less door. If the framed door frame is made of a material of lower stiffness than a frame-less door frame, the framed door frame is less strong and subject to failure if placed in an end load environment such as a vehicle door. Further, as there is a large open gap between the outer and inner frames, the framed door frame is aesthetically unappealing. Therefore, it is desired to make a framed door frame of higher strength and more aesthetically appealing than the framed door frame made of a standard press forming die.

A scalable synapse

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