

CAD View Transfer System Refinements

ID: 2012-071

Executive Statement:

A system designed to enhance collaboration in multi-user CAD environments by allowing simultaneous access and editing of CAD models.

Technology Overview:

This technology, developed by Brigham Young University, offers a novel solution for collaborative CAD work, addressing the limitations of traditional screen sharing tools through a system that transfers parametric view data. This approach significantly reduces bandwidth requirements and integrates seamlessly into CAD environments, facilitating a more efficient and user-friendly collaborative experience.

Key Advantages:

- Significant reduction in bandwidth usage compared to traditional screen sharing
- Improved user experience with seamless integration into CAD platforms
- Enables simultaneous access and editing of CAD models by multiple users
- Features such as a "public view" for shared perspectives and color-coding to identify user contributions enhance collaboration

Problems Addressed:

- High bandwidth requirements of traditional CAD collaboration tools
- Lack of integration and efficiency in multi-user CAD environments
- Difficulties in synchronizing user actions and views in collaborative CAD projects

Market Applications:

- Collaborative engineering and design projects across various industries
- Integration into CAD platforms like Autodesk Inventor for enhanced functionality
- Academic and research institutions for educational purposes and further development