

References

1. Xue Shixin. *Machine-made carpet* [M]. Chemical Industry Press, 2003, 12
2. Karl-Heinz Erren, Regina Grewe, Robert Heidhues, Frank Hoppner: *Tufting Carpet* [P], U.S. Patent: USP5494723. 1994
3. Kathryn Wise. The carpet industry-covering the future. *American dyestuff reporter* 1997; 86(6): 15-16, 18, 21
4. Gäbl Rainer. New trends and possibilities of double carpet weaving. *Melliand textilberichte-international textile reports* 2005, 86(11/12): 182-185
5. Card R T, Card J L. *Tufting machine needle bar drive-comprises bar push rods with individual crank mechanisms actuated from main shaft* [P], U.S. Patent:US4586445.1986
6. Beatty P, Neely M A. *Tufting machine for high speed operations-has paired opposite throw connecting rods for dynamic balance of machine* [P], U.S. Patent: US5287819. 1994
7. Price H B. *Tufting machine-has each needle holder between and selectively connectable to limbs of yoke on pushed rod* [P], U.S. Patent:US4815402.1989
8. Beasley M. *Tufting machine needle bar connecting rod drive cam-comprises upper and lower halves securable about drive shaft* [P], U.S. Patent: US 5320053. 1993
9. Roy T C, Rodney E H. *Needle bar foot construction for multiple needle skip-stitch tufting machine* [P], U.S. Patent: US3978800.1976
10. Meng zhuo, Sun Jingjing, zhou tingze, etal. Research on the influence that stop position of carpet tufting machine to yarn tension and the method of eliminating stop mark [J]. *Key Engineering Materials* 2008; 724-728.
11. Xu Yang, Sun Zhijun, Meng Zhuo, Sun Yize, Chen Guangfeng. Research on yarn tension modeling in carpet tufting equipment system [J]. *Journal of Manufacturing Science and Engineering-Transactions of the ASME*, ASME. 2011; 133(3): 031002.1-031002.4
12. Sun Huan, Chen Zuomo, Ge Wenjie. *Theory of mechanics and mechanisms* [M]. Higher Education Press, 2005,12.
13. Li Bincheng, Xu Chao. *Mechanical principle analysis based on Matlab* [M]. Chemical Industry Press, 2010, 10.