

**METHOD FOR KNITTING THREE-DIMENSIONAL FABRIC WITH
VARIABLE THICKNESS THROUGH A FLAT KNITTING MACHINE**

Abstract

A method for knitting a three-dimensional fabric with variable
5 thickness through a flat knitting machine includes the following steps:
moving two cam groups and driving a plurality of knitting needles to
knit a first piece of knitting by a starting cam system; moving the two
cam groups and driving the pluralssity of knitting needles to knit a
second piece of knitting by a middle cam system; and moving the
10 two cam groups and driving the plurality of knitting needles to knit a
supporting yarn by two tail cam systems respectively. The tail cam
systems control each of a plurality of knock-over bit cams to move
according to a gap size corresponding to a knitting length of the
supporting yarn, so as to promptly change a thickness of the three-
15 dimensional fabric along the length change of the supporting yarn.

Fig. 4