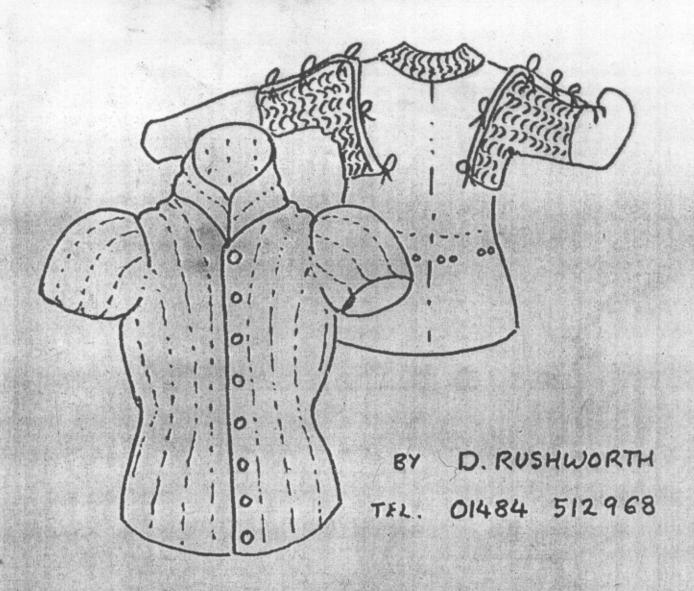
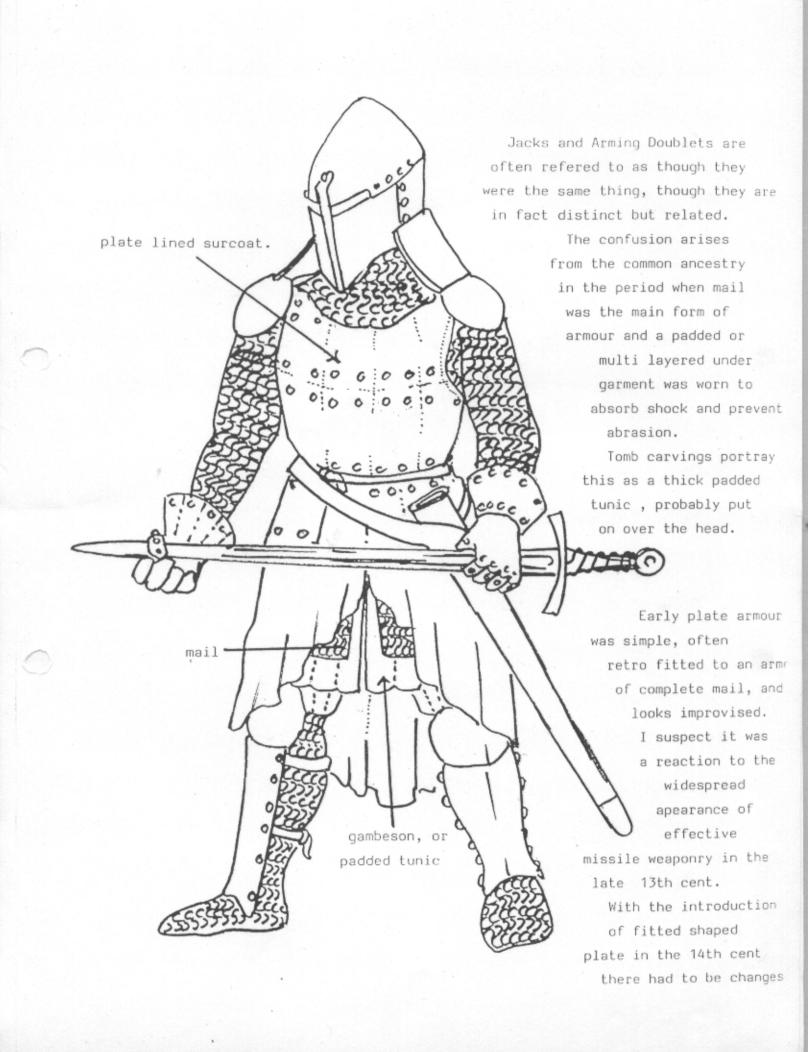
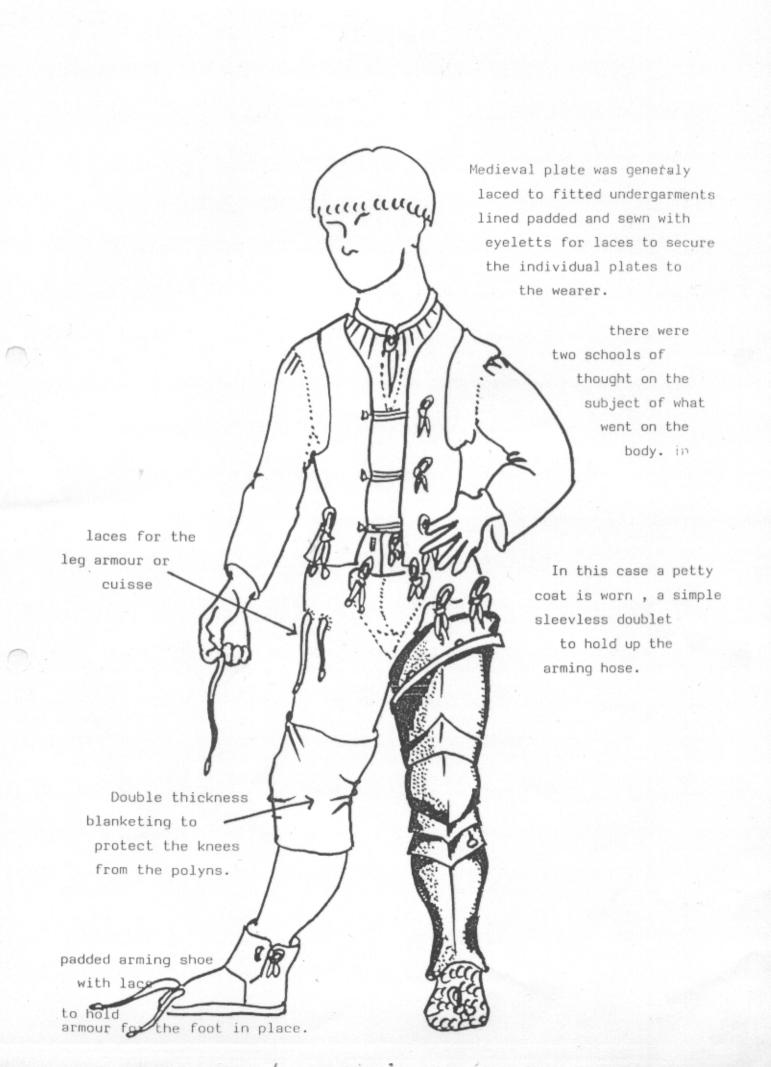
A HANDBOOK OF JACKS & ARMING DOUBLETS

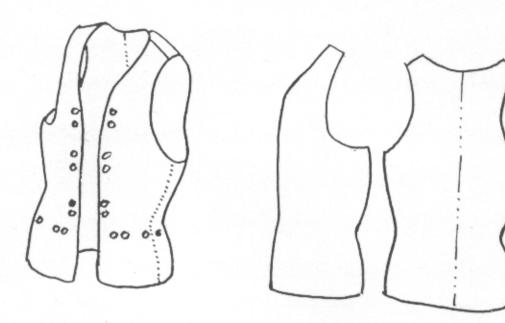




Mail was and is an expensive armour, foot soldiers needed something cheaper, and lighter. The answere was the use of the same padded or multi layer garment that knights used to augment their armour

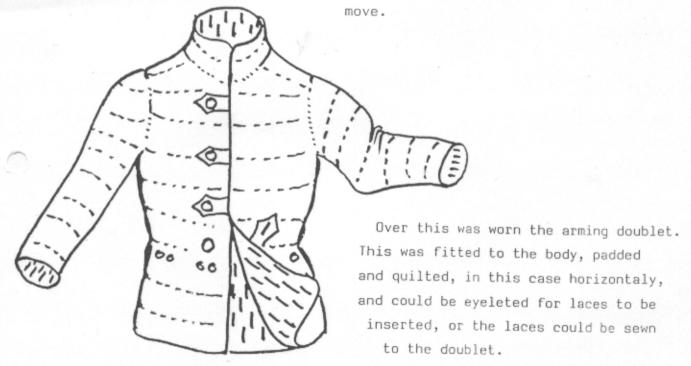






The petty coat was of two thicknesses of linen ,cut to fit very closely, open at the front so that it could be laced tightly.

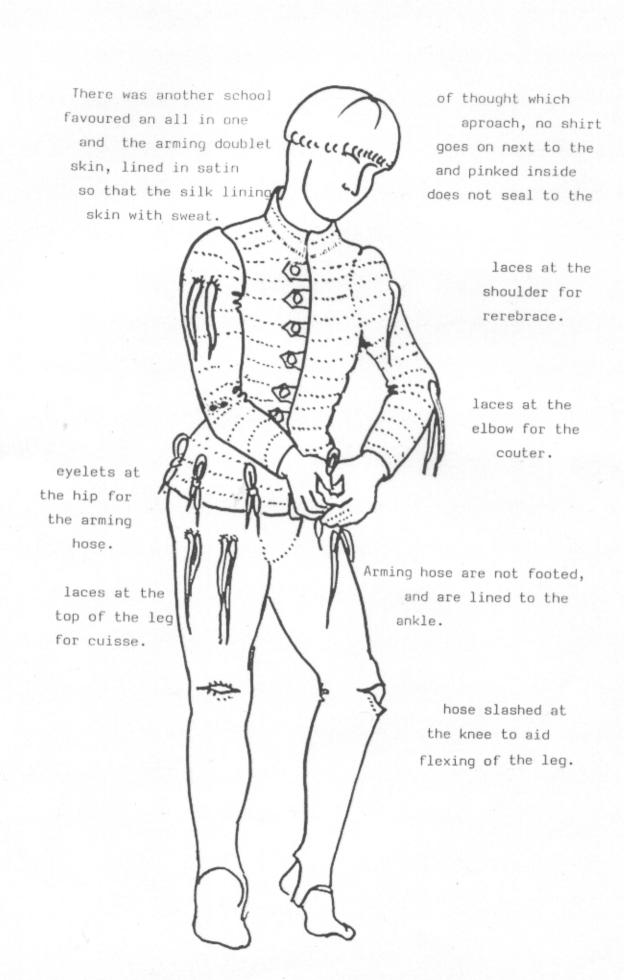
Note that it is narrow over the shoulder to leave the arm free to

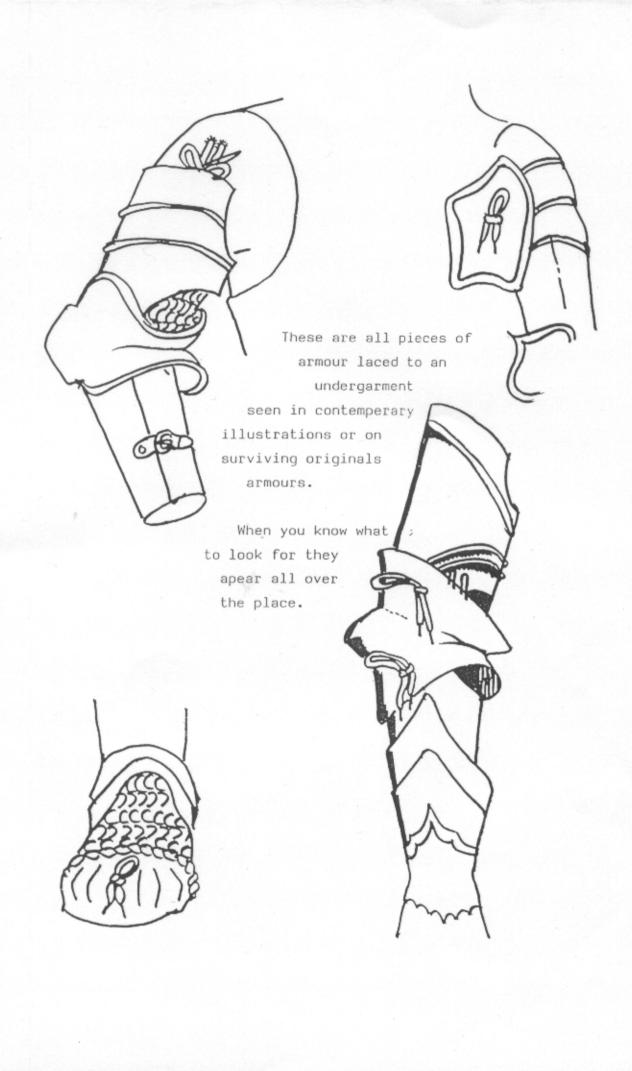


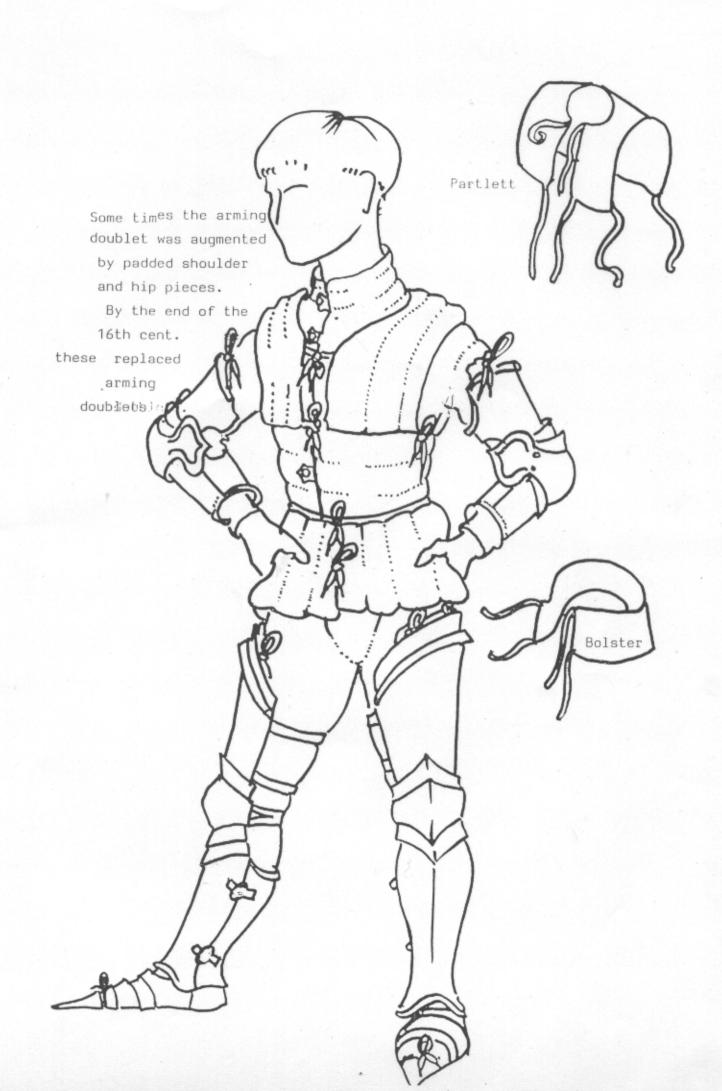
This drawing is based on a German original, which fastened by leather tabs and leather buttons, laces apear more often in contemperary illustrations

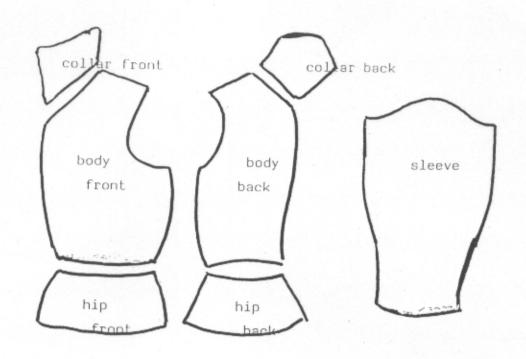
Also of note earlier arming doublets, and particularly German arming doublets were made to be worn with a full mail shirt

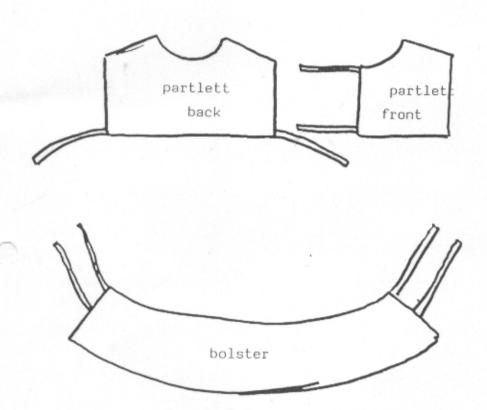
over the top, laced on mail panels, voidures, were a later and perhaps Italian inovation.

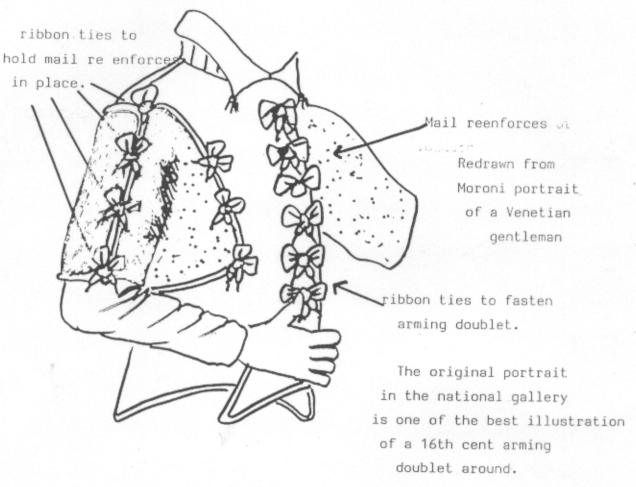


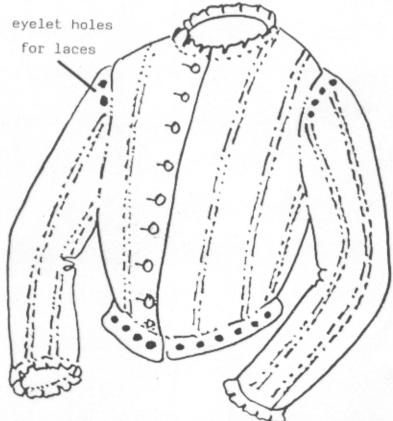




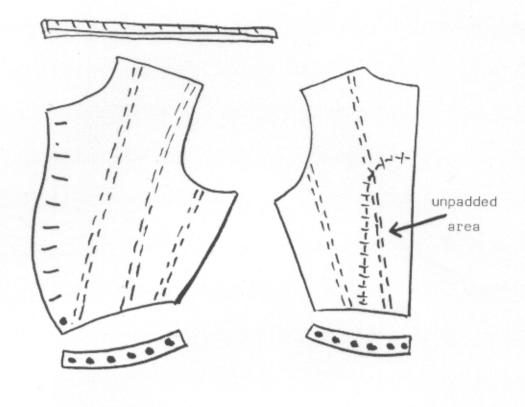


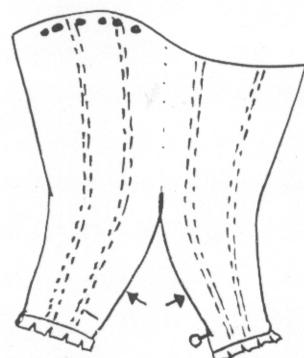






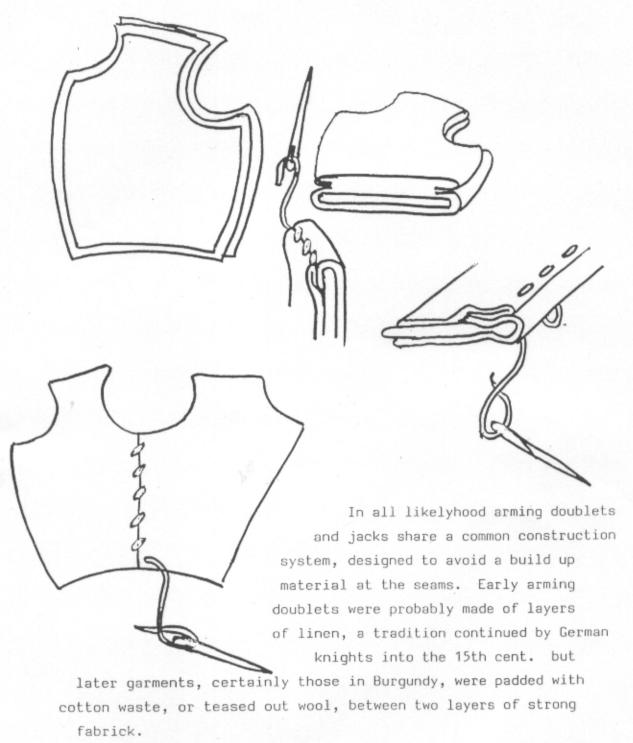
scetch
sketch of a 16th
cent. garment
believed to be an
arming doublet
property of the
Royal Scottish Museum
Edinburgh.



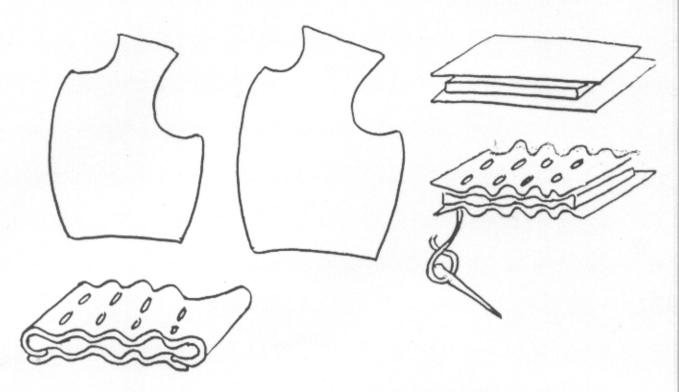


open cuff fastened with one button.

Pattern for 16th
cent arming doublet
in red silk, interlined
with linen and padded
with cotton wool,
lined with white
linen.

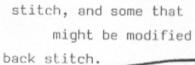


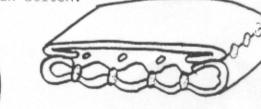
Note how the two outer layers are cut large enough to wrap over the filler layer, and be stitched around it either whipped or back stitched through, to make a unit. These units then butted together and whip stitched together to assemble the complete garment.

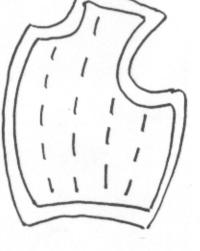


Quilting the layers together stops them from moving about and ruckling, it also stiffens the panels considerably, not always a desirable state of afairs.

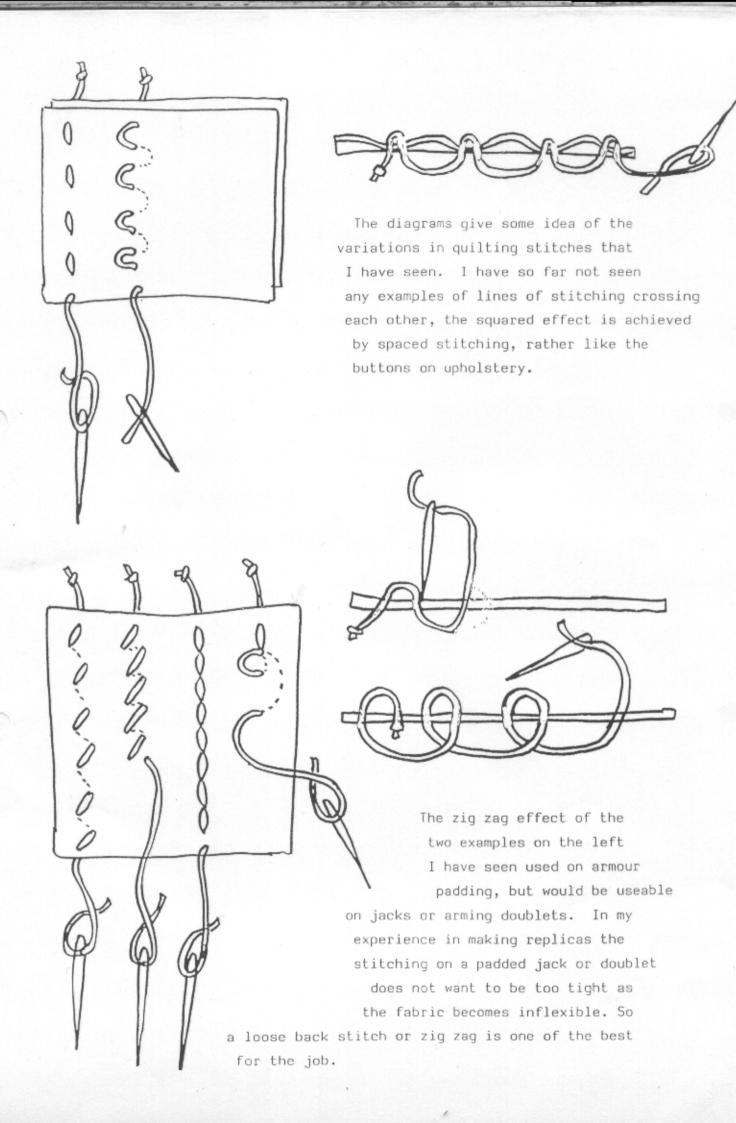
On the few original pieces of armour padding, protective quilting and such that I have seen, the stitching has been simple running

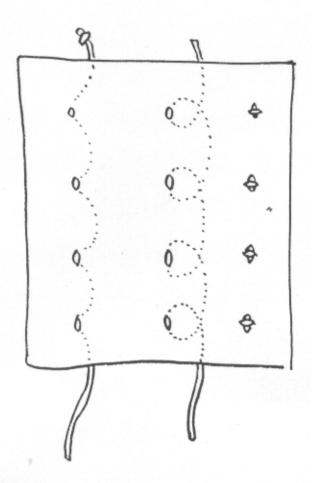




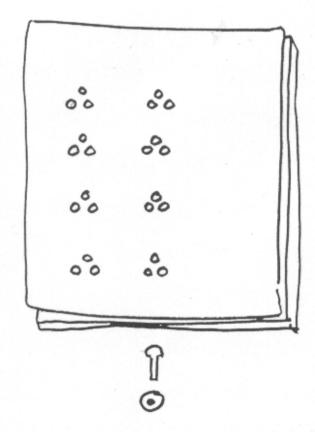




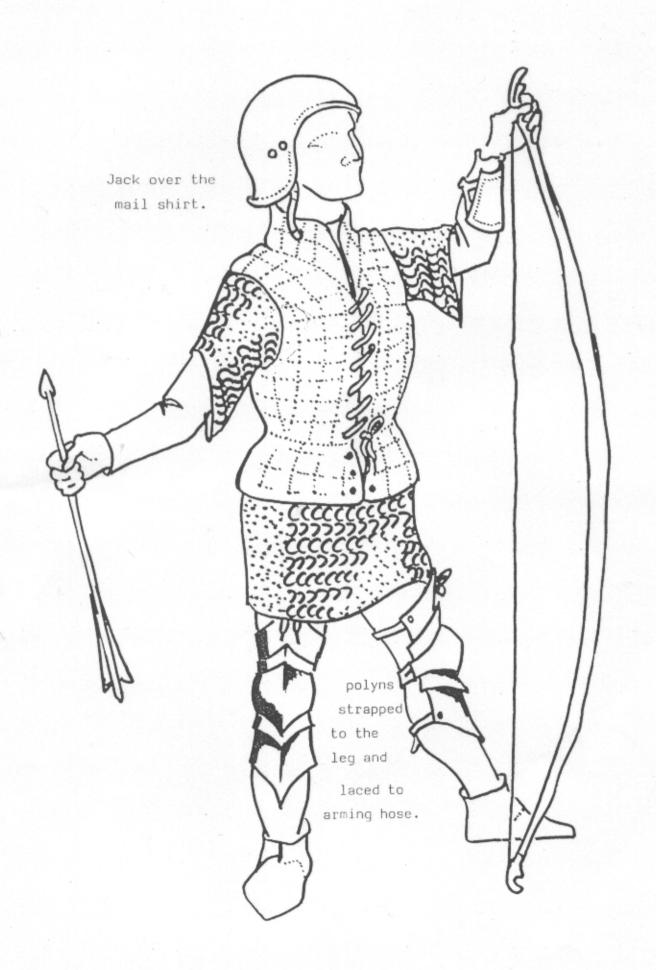


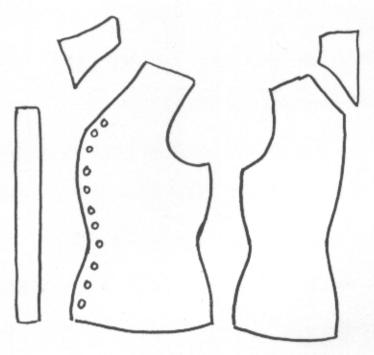


Spacing the stitches running ,back, or cross stitch, so that they are equidistant gives the impression of chequer board quilting.



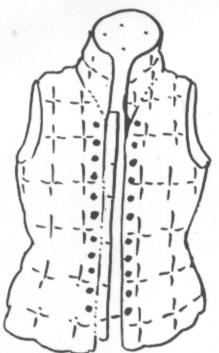
In the 15th cent the Burgundian army was reputed to sometimes wear decorative brigandines with no plates inside but rivitted through wadding instead, like a variation on the jack.





With a jack the emphasis
is on resistance to penatration
rather than shock absorbtion
and as a rule they were
made of multiple layers
of linen (preferably old
and washed) or new cotton.
The reference to the use
of cotton cloth in the
15th cent. is definate
and clear. Wadded jacks
fabrick stuffed or padded
with teased out wool or

cotton are referred to in the medieval period. In the construction



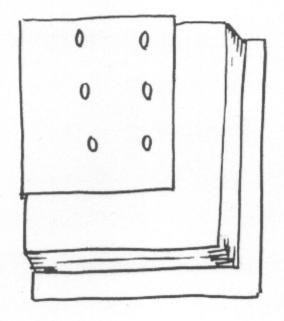
of a jack up to 30 layers of cloth are mentioned, and even a top layer of deerhide. 16th cent descriptions of Bordrers jacks being covered with white leather leads me to believe that buckskin is the material inferred.

Other writings mention steeping jacks in vinager, or red wine and salt to improve their resistance and the Aztecs who also used padded or wadded cotton armour are described as soaking theirs in salt water.

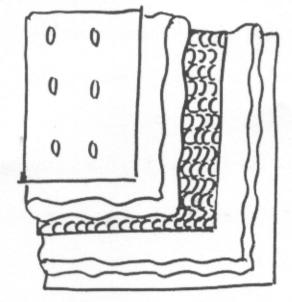
This duplication completely independently of the same process leads me to the conclusion

that it was effective in improving the performance of the garment.

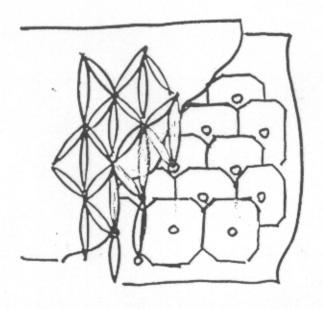
Jacks could be laced or buttned shut but whatever the opening would be reenforced or backed up with a strip to guard against a weak point here.



Wadding and multi layering were the oldest ways of making jacks.



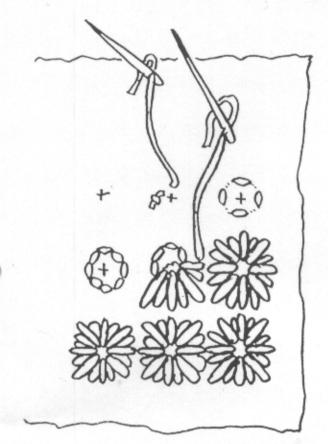
Putting a layer of mail in the core of the jack was an oft used way of beefing up its performance.



Another was to insert
and stitch or lace in place
a layer of plates, metal,
often from cut up obsolete
armours, or horn a rust
proof and very tough alternative.

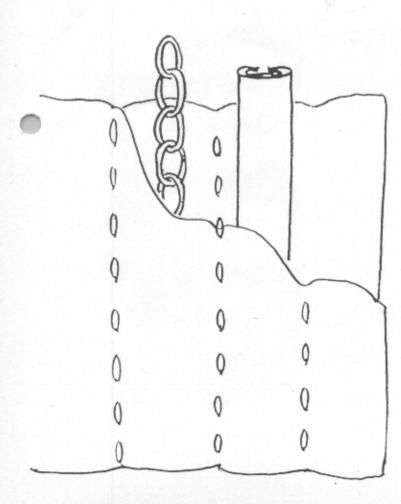
In a modern replica, rawhide,

the stuff dog chews are made of might be viable.



Another fabric defence was the coat of eyelets, a linen defence toughened by sewing it all over with stitched eyelets.

The diagram at left shows the sequence of construction, marking the eyelet, sewing round it with double running stitch, and oversewing.



Quilted sleeves could be lined with lengths of chain or folds of fustion to make them swordproof.

A doublet could be lined in the body with a coat of eyelets, and the sleeves threaded with chains to produce a discrete but effective body armour.