Leather Product Feelmobogy -I

Hean form - Hean form is two dimensional shape 01. if a dost which is obtained by drawing the mean of outside of inside form of the lost.

stepwise procen

(i) Hasking of lost with muslary take

(i) Draw different point

(i) Ball point (ixide 4 mlside)

(ii) centre line (front)

(iii) vanp point. (cross section of Joint path 4 front

(iv) Back centre line (v) Hank back height point

(iii) Take out side form of suside form

(in the Past out side form on the clark paper and out the shape.

(1) Iron Enside form and cut

(vi) Polce the mean of both out 4 inside form.

W) Take the mean form and brown the shape on a. d. Aus: Deforde Chart peper (ii) Mark instel point 55-60mm apart from vant point-(ii) mark vomb find (IV) Draw Mark Tongue point 10mm apart from Instep point (V) Draw prespendicular from justep and tongue point toward feather edge. Draw top line Draw different stylings to complete the (ii) Onder, could, vamp and Tonque, ux formula to make the distance for two consequence expeloling d= n-1 (viii) when n = no. of eyeldis (MX) Draw Stitch + but the instruction on the standard such as folding, net etc (N) Losting margin must be indicated in lasty alowance. also had other is selected by drawing the

CLASSIFICATION OF ADHESIVE ACCORDING TO ITS ORIGIN:

No adhesive can satisfy all the conditions laid down as above. The adhesives have a large number of industrial application depending upon the degree of which different adhesives satisfy the above requirements they find their application to the respective industries. According to the source of origin the adhesive can be classified in the following groups:

- a. Animal Origin.
- b. Vegetable Origin.
- c. Mineral Origin.
- d. Synthetic resins and latex.

Animal origin

The basic material of this adhesives derives from skins, hides, bones of animal, cow's milk, fish, egg, animal blood etc. There are four principal materials largely used in adhesive manufacture.

- 1. Gelatin and Glue.
- 2. Fish Glue.
- 3. Casin.
- 4. Albumin.

Vegetable origin

The adhesives of this kind are derived from vegetable kingdom of nature i.e. from maize, potato, cassare, various kinds of acasias, pines and other trees. The vegetable base adhesives may be divided in to the following groups:

- 1. Flours and Starches.
- 2. Dextrines.
- 3. Water soluble gums.
- 4. Gum Resins.
- 5. Cellulosic Materials.

Mineral origin

There are some adhesives which are based on a material of mineral origin or inorganic materials. The only material in this groups of major interest is sodium silicate.

Synthetic resins

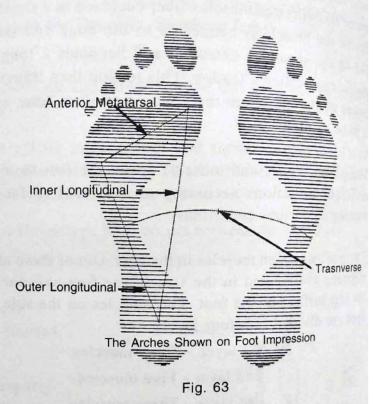
The adhesives based on synthetic resin actually make the revolutionary changes in the footwear industry. There are large number of chemical synthetic resins which are being used as a basic raw-material for making synthetic adhesives. among these some are:

- 1. Phenolic (Phenol formaldyhide)
- 2. Urea formaldyhide
- 3. Polyurethane
- 4. Vinyl (Vinyl acetate & Vinyl alcohol)
- 5. Acrylic
- 6. Rubber latex,
- 7. Poly chloroprene,
- 8. Nitro cellulose.

(i) Upper leatur (topulus) -> good tenile shough & stitch fear shough - It has Blasticity well plasticity both. -> wood fear shoughts which enable to been me cut Stitch holes and decorative perforting with to causing any mentaching forother. -> tigh flexing endurance. - water vopour permeability -> CiT leather has good Heat renstance. Excellent thomas propulies -> Good Cobrfashus (1) Toe buff and Stiffmer -> Stiff but resilient -> ability to withstand monday and shape setention -> light in wight and even substance -> Must cut & Skine easly. -> Ability to hold factor of stitches. (IVI) Insole (iii) sole -> Good stitch tear resistance -> Ability to hald adherine trules and stitues. Abrasilue resistance Light in weight Good flering endurance - wood territe shouth -> Good dyree of flepibling Stil resistance Water and beat broof -> Good water territe Even in substance. Durable.

ARCHES OF THE FOOT

The bones of a strong healthy human foot are held together by a network of ligaments, tendons and muscles. These bones are arranged in such a way that they form four separate natural arches which run lengthwise and cross wise of the foot. These arches of the foot are not at all rigid, as they do not anchored to permanent, immovable abutments. The arches give support to the foot. These are resilient, pliable and also responsive to the thousand angulation of the human foot when it is in motion and action. The foot is arched longitudinally



on the inside and outside and transversely at either end of the metatarsals. These can also be viewed when looking at the impression made by a pair of foot. [Fig. 63]

INNER LONGITUDINAL ARCH:

This arch is between OsCalcis and first three metatarsals, which includes Scaphoid and cuneiforms. It has flexibility and provides for shock absorption and propulsion.

OUTER LONGITUDINAL ARCH:

This arch is between oscalcis and 4th and 5th metatarsal passing through cuboid. This arch is more or less flat and lacks mobility. This arch is very much suited for supporting the weight of the body.

TRANSVERSE ARCH:

This arch formed by the both foot and crosses through the base of the 5th metatarsal, the cuboid and cuneiforms. It is independent with inner longitudinal arch, but more rigid than the inner longitudinal arch and protects the main blood vessels and nerves supplying the sole.

ANTERIOR - METATARSAL - ARCH:

This arch is only visible (apparent) when there is no weight on the forepart of the feet. This arch is formed across the head of the five metatarsals. The strong ligaments in this metatarsals which joins them together prevents the arch spreading too much and a disproportionate amount of pressure going on to the middle metatarsals heads when the foot bears the weight of the body.

[Classification of Last, Various Parts of a shoe Last; Differnce between the 'Human feet' and 'Last'; Manufacuring of Last]

LAST

is a reproduction of approximate shape of the human foot. It provides the shape and sider the following points [Fig. 87]. carries a great responsibilities. Before modelling a shoe last, one should strictly confittings of a shoe made on it. As lasts are the fundamental of manufacturing a shoe it and a foot trace. Last is not the exact replica of the foot but resemble them in out line. It The word "LAST" came from the word "LAEST" which means a foot print, a foot track,

- The anatomy of foot
- The trend of the fashion

features are (1) Toe spring (2) Heel pitch. fort while wearing a shoe, the last is designed with several special features. Two major therefore determines shape, size and inner dimensions of the shoe. To provide foot com-Last is a three dimensional (3-D) form based on the shape and movement of the foot. It

Beside these the ball, instep and heel girth play a major role while making a pair of shoe last.

CLASSIFICATION OF LAST

	hinge Finishing Half plated	Metallic Conventional	Pre forming Toe plated	+	wooden Solid block Lastino Hart	wise	wise wise Purpose Plating	Violatical
Full bottom High heel plated (40 mm above)	Medium heel (26-40 mm)	1 Low heel (10-15 m.m)		d Without heel		Heel wise		

TYPES OF SHOE LAST:

LAST

There are four types of shoe lasts which are being used by the shoe industry as a whole

- SOLID BLOCK LAST
- SCOOP BLOCK LAST
- ORDINARY OR CONVENTIONAL HINGE LAST
- TELESCOPIC HINGE LAST

SOLID BLOCK LAST

a)

dies bellies. [Fig. 87a] This is a last made with single Chappal, sandal and wide open lafor modeling and manufacturing of block of material. It is mainly used

SCOOP BLOCK LAST:

6)

means of a spring and a plug. For as shown by a saw machine which It is a two part last. A cut is made upper portion is separated first, unlasting a shoe from the last the top. The fastening is made by removes a large portion from the then it becomes easy to unlast the this last.[Fig. 87b] hand made shoe makers are using shoe from the last. Most of the

c) ORDINARY OR TIONAL HINGE: CONVEN-

to facilitate the hinging system. A is made on the block as shown in entirely from scoop last. A 'V' cut It is also a two part last but differs metal piece connecting the front

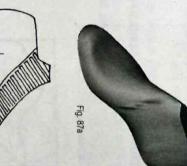
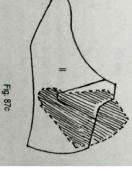


Fig. 87b



1 53 F

6) (111) Losting of ordulary margin boby marija - lastry mergin is the allowances which is onen at bottom (featheredge) of each components for pasting of upper to themsole and Sole. In the area bashing monign - 16 mm

middle region - 20 mm.

Seal defin - 18 mm

Seal defin upon type of

lashing organgen depents upon type of doether. In sifty leather larger merson is less. This is the mention given in the Component Underlay margin which is under the other component. Eg in the which is under the other and quetien . country or underly margin is given in quety.

Queli so besty margin is given in quety.

Londorly mergin is 10 mm.