

LES SYNCHRONISEURS

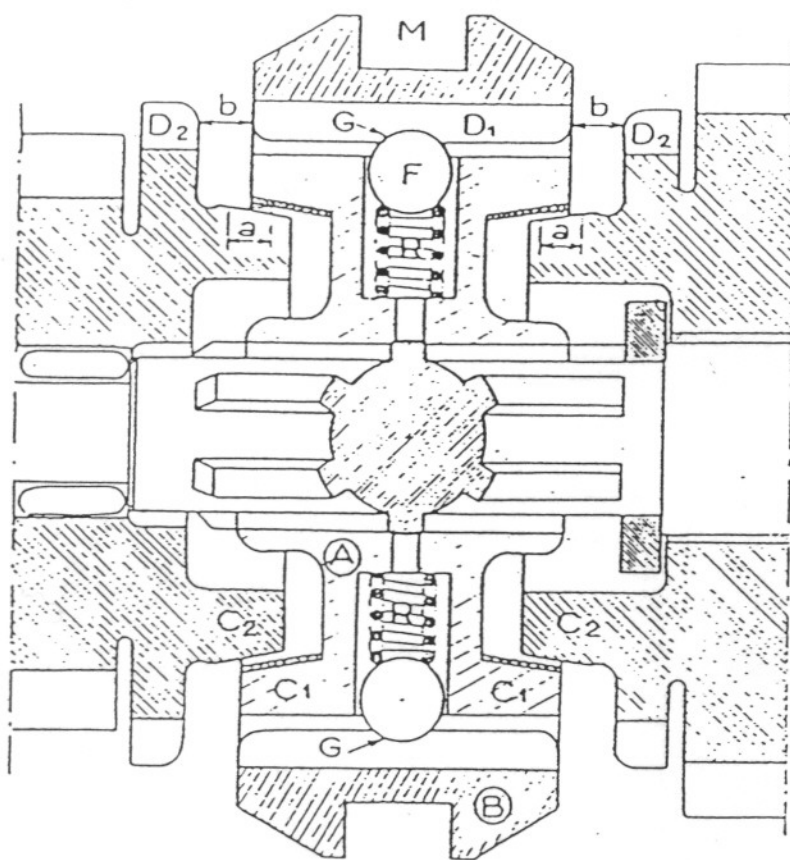


Fig. 43 Dispositif ENZENFELDER

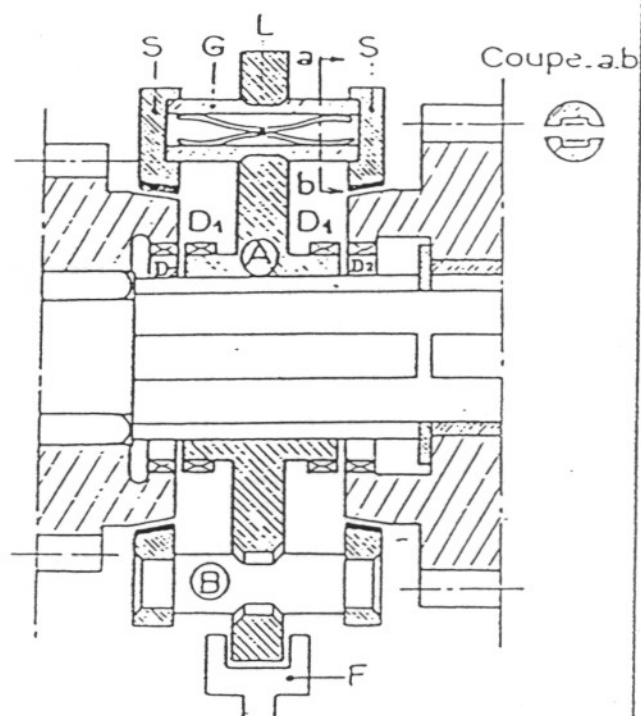


Fig. 44 Synchroniseur CLARK

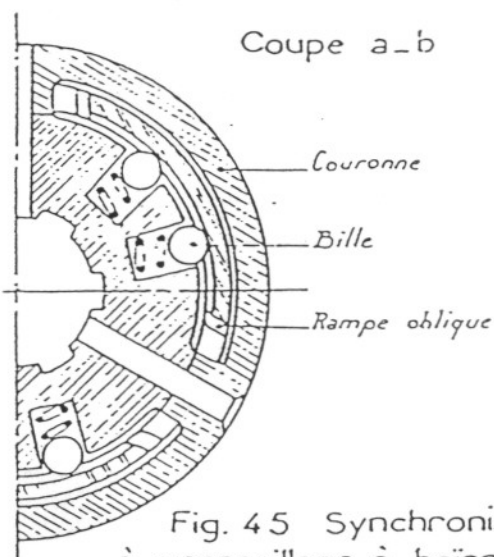
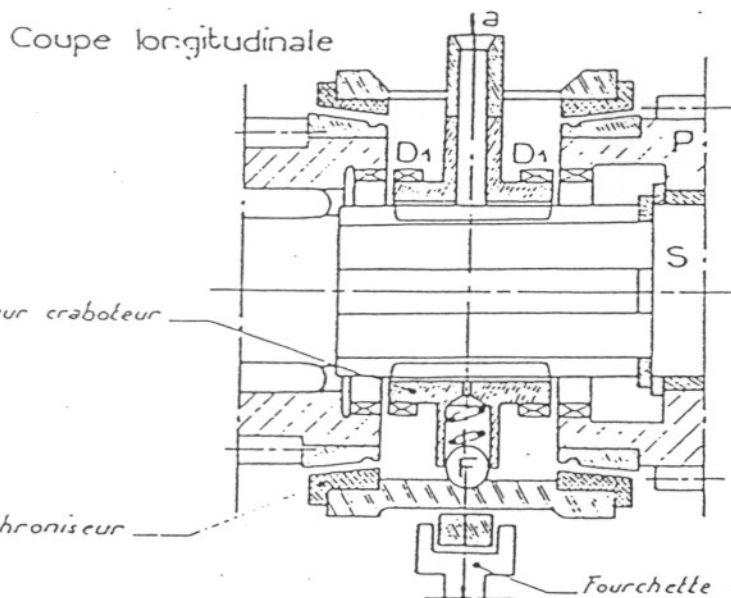
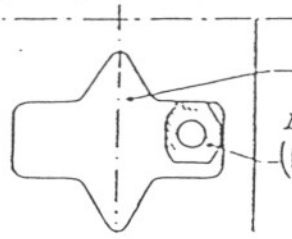
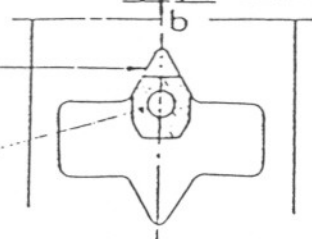


Fig. 45 Synchroniseur à verrouillage à baïonnette

Rampes obliques
Bras du baladeur craboteur
(point mort)



Vues de dessus

Coupe a-b
Couronne
Bille
Rampe oblique

Ouverture du synchroniseur

Bras du baladeur craboteur
(pignon p crabote)

SYNCHRONISEUR A CONES (Solution "SPICER JEEP")

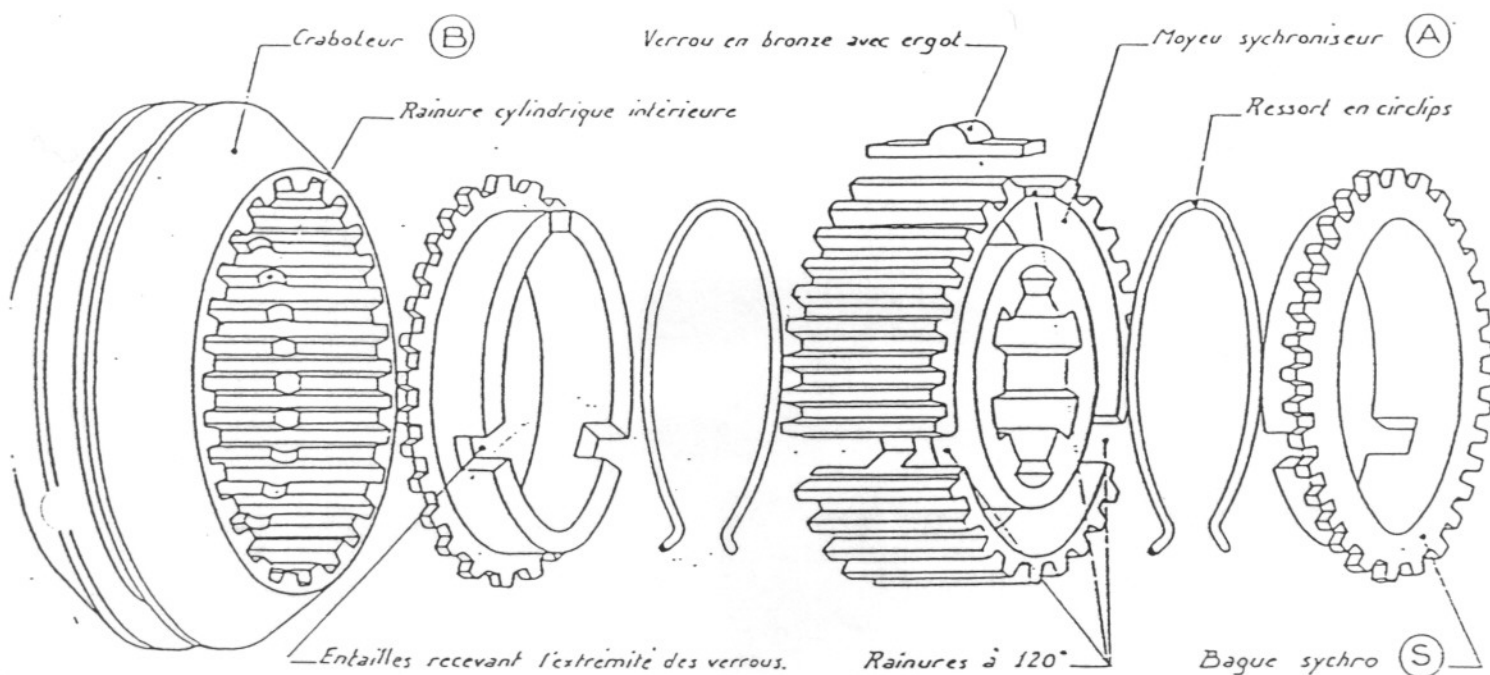


Fig. 46 Vue éclatée des différentes pièces

SCHEMAS DE FONCTIONNEMENT

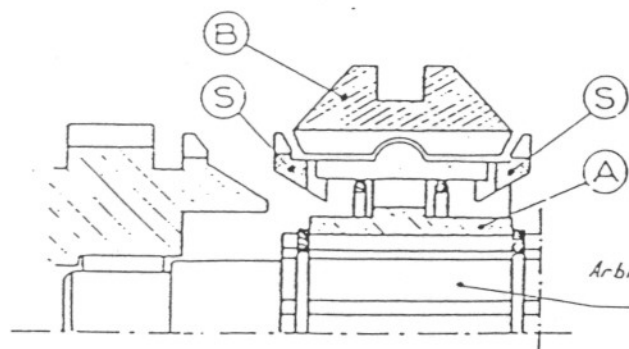


Fig. 47 Point mort

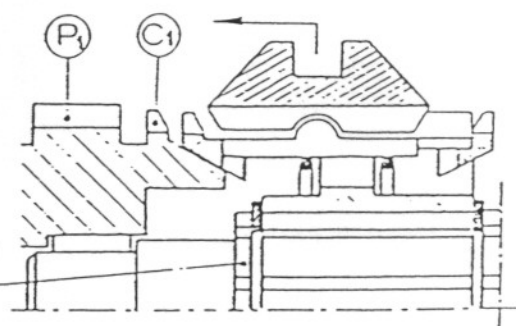


Fig. 48 Mise en contact de la bague synchro

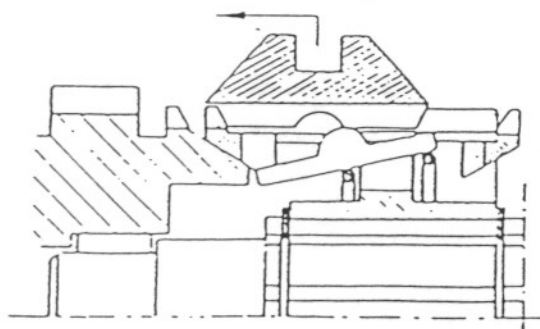


Fig. 49 Le craboteur coiffe la bague synchro. Le verrou bascule

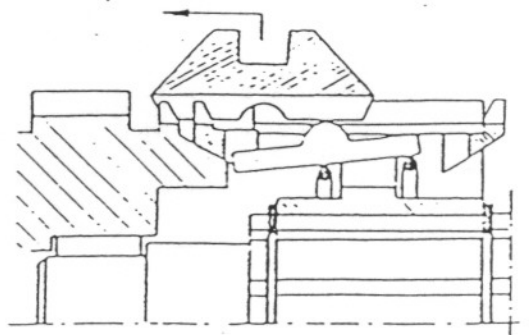


Fig. 50 Crabotage du pignon

SYNCHRONISEUR "OPEL"

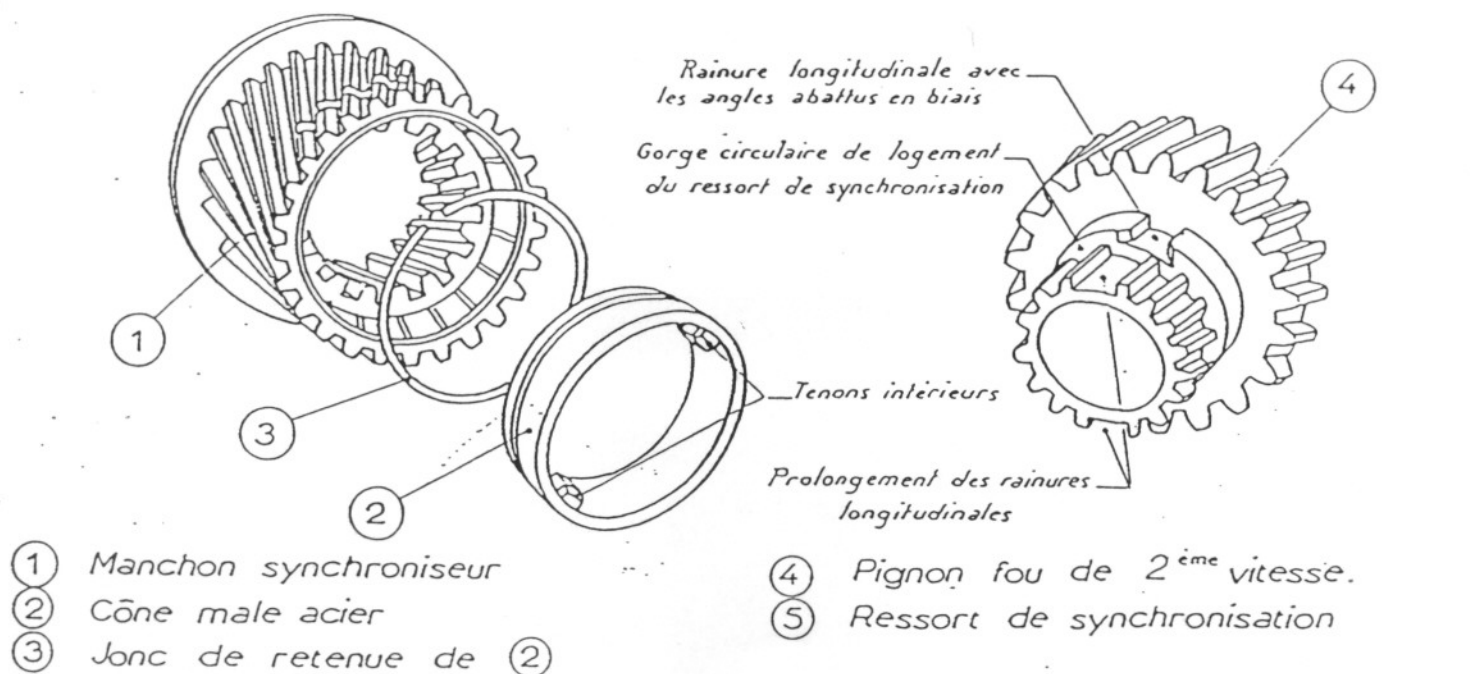


Fig. 51 Vue éclatée de l'ensemble du synchroniseur

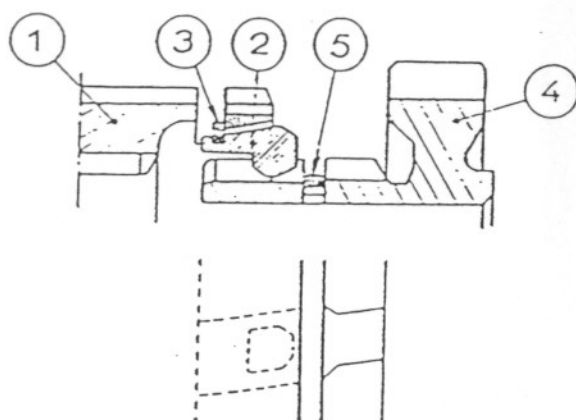
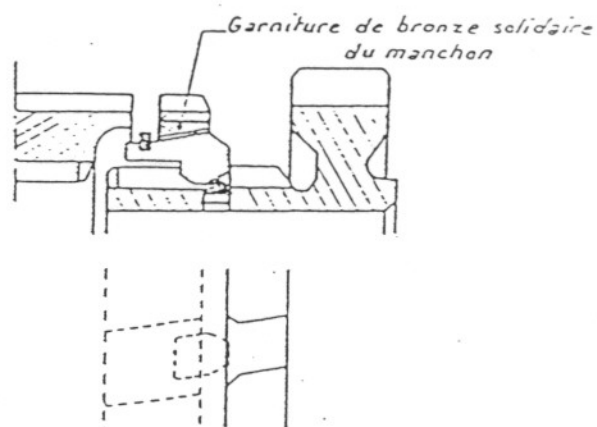
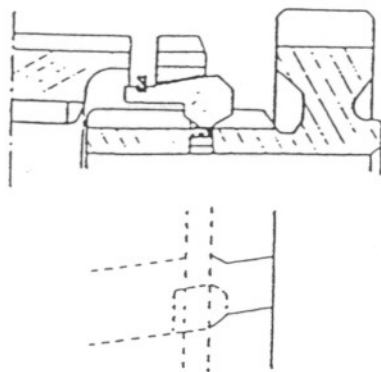
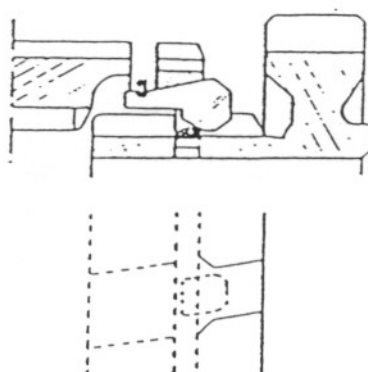
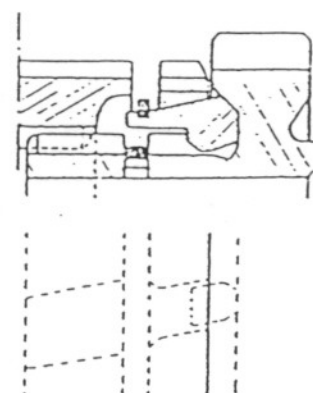


Fig. 52 Point mort

Fig 53 Passage en 2^{ème} vitesse 1^{ère} phaseFig. 54 2^{ème} phaseFig. 55 3^{ème} phaseFig.-56 4^{ème} phase

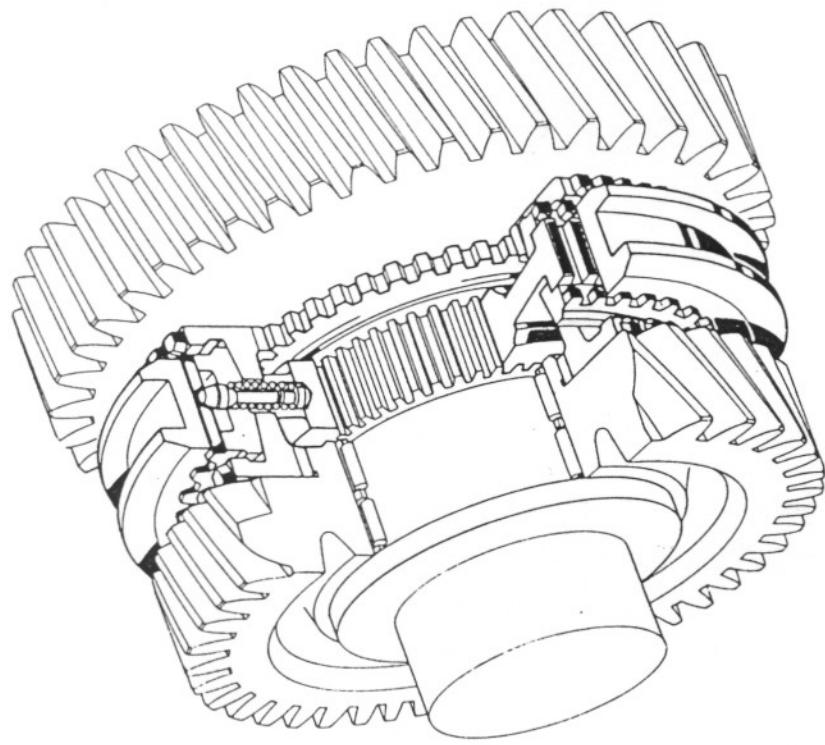


Fig. 2
Synchronisation ZF à course réduite

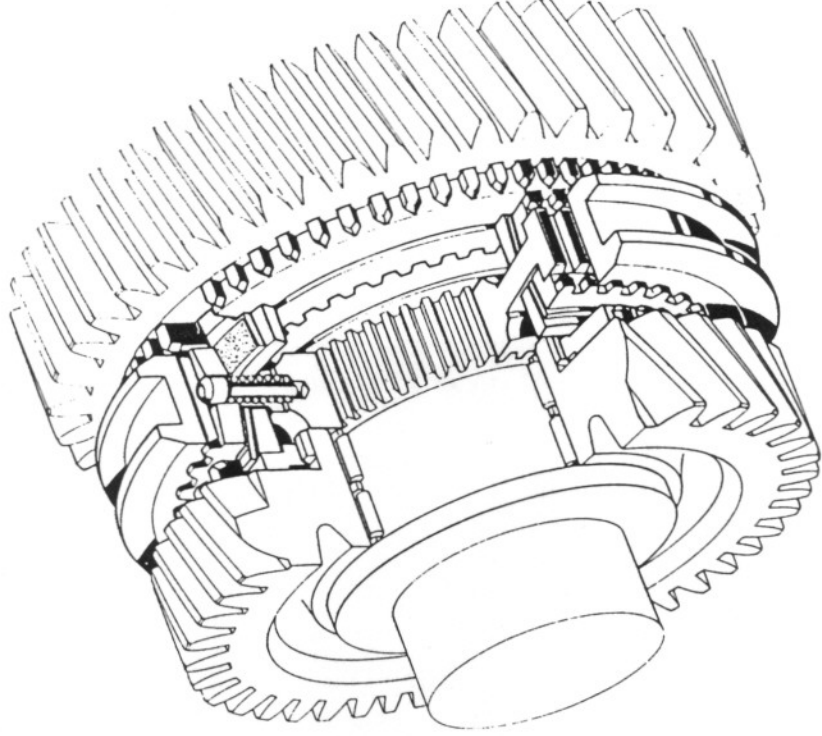
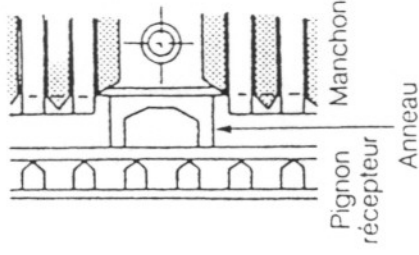
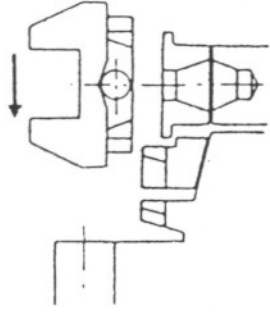
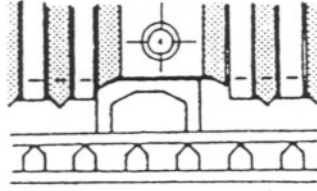
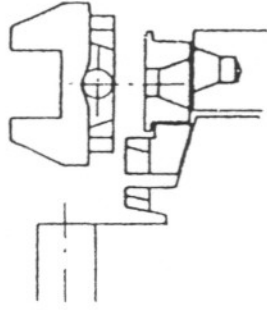


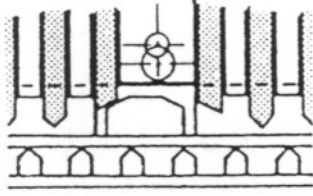
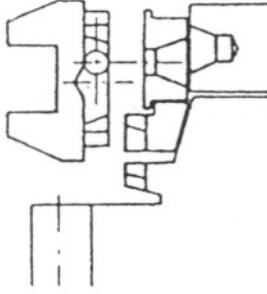
Fig. 3
Synchronisation ZF à double cône



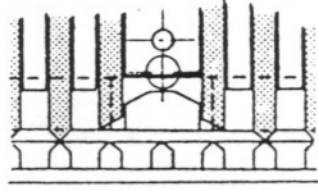
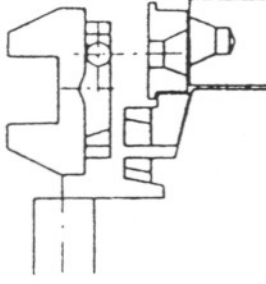
point mort



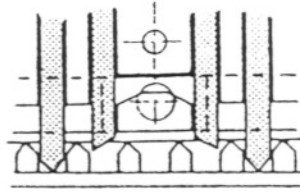
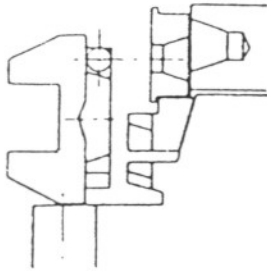
début d'armement



synchronisation



début de crabotage



fin de crabotage

Différentes étapes du fonctionnement du synchroniseur Borg-Warner à bosses.